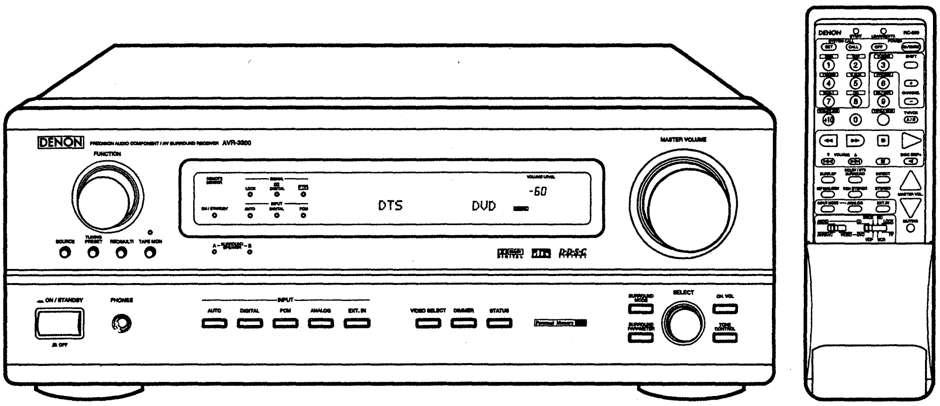
DENON

Hi-Fi Component

SERVICE MANUAL

MODEL AVR-3300

AV SURROUND RECEIVER



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● Some illustrations using in this service manual are slightly different from the actual set.

NIPPON COLUMBIA CO., LTD.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

SPECIFICATIONS

AUDIO SECTION

(Power Amplifier)

Rated output:	Front:	105 W + 105 W	(8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.)
		140 W + 140 W	(6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
	Center:	105 W	(8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.)
		140 W	(6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
	Surround:	105 W + 105 W	(8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.)
		140 W + 140 W	(6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
(for multiple voltage and Taiwan R.O.C. models)	Front:	170 W + 170 W	(6 Ω/ohms, EIAJ)
	Center:	170 W	(6 Ω/ohms, EIAJ)
	Surround:	170 W + 170 W	(6 Ω/ohms, EIAJ)
Dynamic power:	140 W × 2 ch	(8 Ω/ohms)	
	210 W × 2 ch	(4 Ω/ohms)	
	240 W × 2 ch	(2 Ω/ohms)	
Output terminals:	Front/Center:		6 – 16 Ω/ohms
	Surround:	A or B	6 – 16 Ω/ohms
		A + B	8 – 16 Ω/ohms

(Analog)

Input sensitivity/input impedance:	200 mV/47 kΩ/kohms
Frequency response:	10 Hz ~ 50 kHz: +0, –3 dB (DIRECT mode)
S/N:	102 dB (DIRECT mode)
Distortion:	0.01 % (20 Hz ~ 20 kHz) (DIRECT mode)
Rated output/maximum output:	1.2 V/8 V

(Digital)

D/A output:	Rated output – 2 V (at 0 dB playback) Total harmonic distortion - 0.008% (1 kHz, at 0 dB) S/N ratio – 102 dB Dynamic range - 96 dB
Digital input:	Format – Digital audio interface

(Phono equalizer (PHONO input-REC OUT))

Input sensitivity:	2.5 mV
RIAA deviation:	±1 dB (20 Hz to 20 kHz)
Signal-to-noise ratio:	74 dB (A weighting, with 5 mV input)
Rated output/Maximum output:	150 mV/8 V
Distortion factor:	0.03% (1 kHz, 3 V)

VIDEO SECTION

(Standard Video Jacks)

Input/output level and impedance:	1 V p-p, 75 Ω/ohms
Frequency response:	5 Hz ~ 10 MHz – +0, –3 dB

(S-video jacks)

Input/output level and impedance:	Y (brightness) signal – 1 V p-p; 75Ω/ohms C (color) signal – 0.286 V p-p, 75Ω/ohms
Frequency response:	5 Hz ~ 10 MHz – +0, –3 dB

(Color component video jacks)

Input/output level and impedance:	Y (brightness) signal – 1 V p-p; 75Ω/ohms Cb (blue) signal – 0.7 V p-p; 75Ω/ohms Cr (red) signal – 0.7 V p-p; 75Ω/ohms
Frequency response:	5 Hz ~ 20 MHz – +0, –3 dB

TUNER SECTION

	[FM] (Note: µV at 75 Ω/ohms, 0 dBf = 1×10^{-15} W)	**[AM]**
Receiving range:	87.50 MHz ~ 107.90 MHz (for North America model) 87.50 MHz ~ 108.00 MHz (for Multiple voltage, Taiwan R.O.C. and Europe models)	520 kHz ~ 1710 kHz (for North America model) 522 kHz ~ 1611 kHz (for Multiple voltage, Taiwan R.O.C. and Europe models)
Usable sensitivity:	1.0 µV (11.2 dBf)	18 µV
50 dB quieting sensitivity:	MONO 1.6 µV (15.3 dBf) STEREO 23 µV (38.5 dBf)	
S/N ratio:	MONO 80 dB STEREO 75 dB	
Total harmonic distortion:	MONO 0.15 % STEREO 0.3 %	

GENERAL

Power supply:	AC120 V, 60 Hz (for North America model) AC115/230 V, 50/60 Hz (for Multiple voltage and Taiwan R.O.C.) AC230 V, 50 Hz (Europe model)
Power consumption:	5.6 A (for North America model) 320 W (for Multiple voltage, Taiwan R.O.C. and Europe models)
Maximum external dimensions:	434 (W) × 171 (H) × 416 (D) mm (17-3/32" × 6-11/32" × 16-3/8")
Weight:	15.0 kg (33 lbs. 2 oz.)

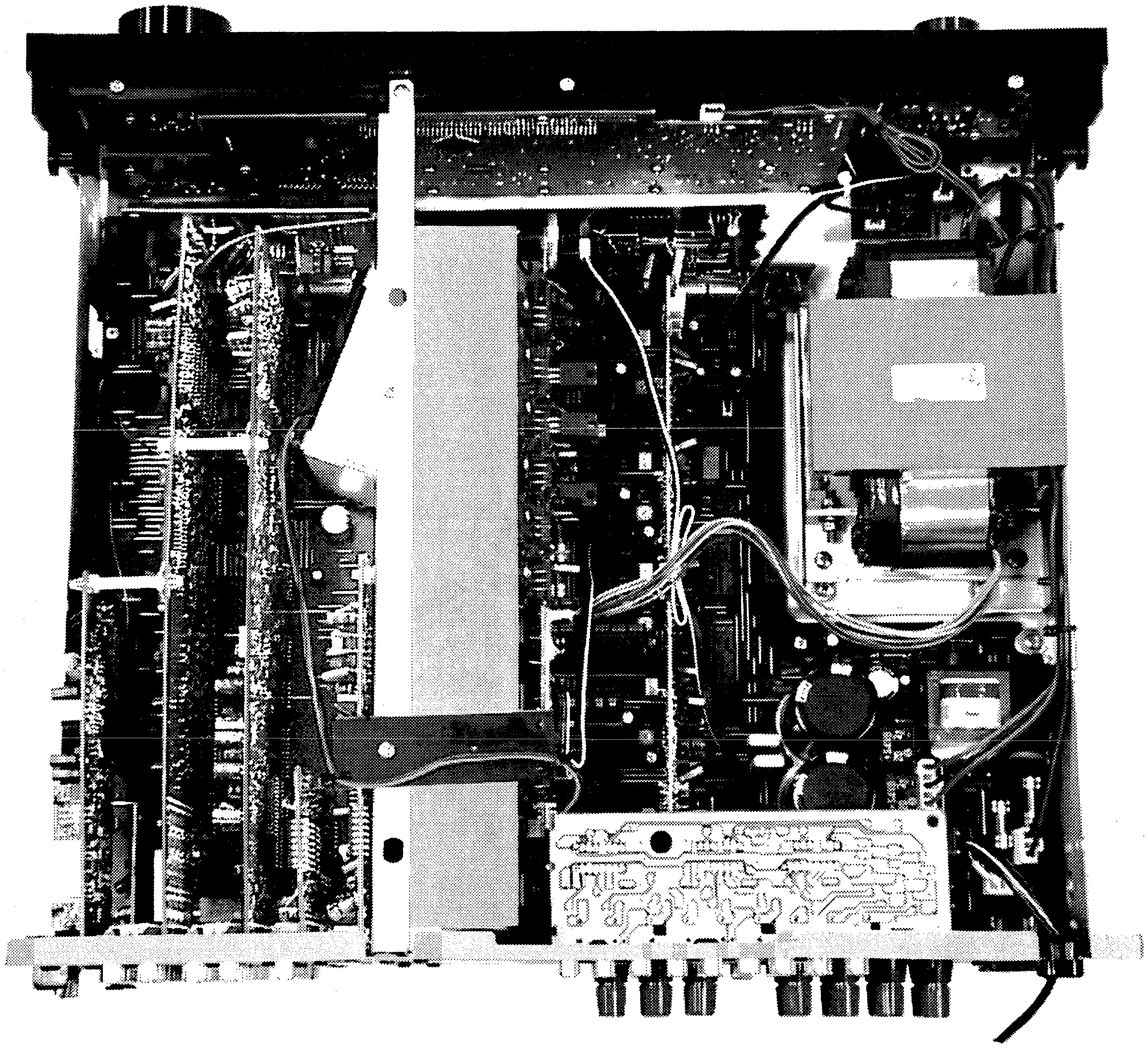
REMOTE CONTROL UNIT (RC-860: North America, Multiple voltage, Taiwan R.O.C. models)
(RC-864: Europe model)

Batteries:	R6P/AA Type (two batteries)
External dimensions:	70 (W) × 215 (H) × 24 (D) mm (2-3/4"× 8-15/32" × 15/16")
Weight:	200 g (Approx. 7 oz.) (including batteries)

WIRE ARRANGEMENT

If wire bundles are untied or moved to perform adjustment or parts replacement etc.,be sure to rearrange them neatly as they were originally bundled or placed afterward.
Otherwise, incorrect arrangement can be a cause of noise generation.

Wire arrangement viewed from the top

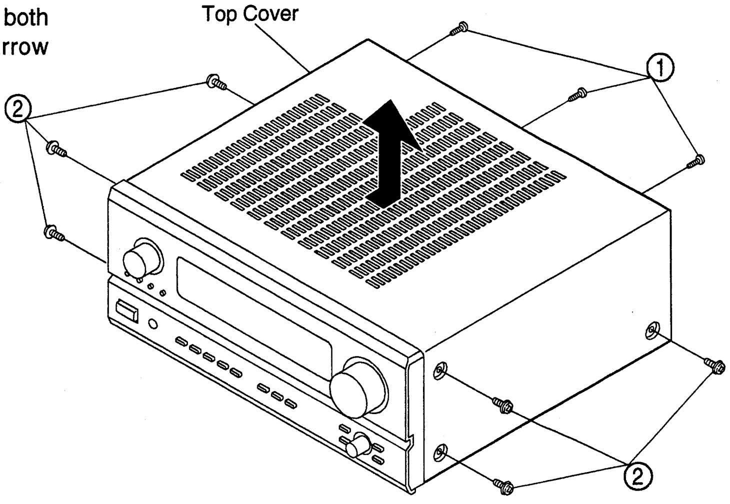


DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

1. Top Cover

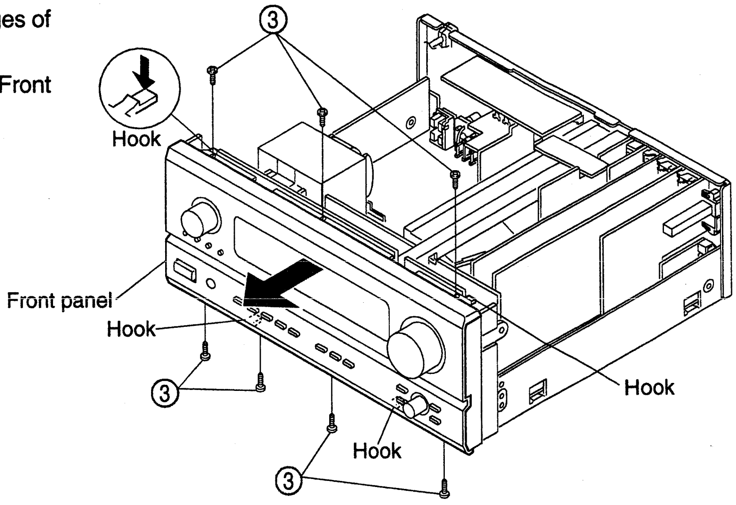
Remove 3 screws ① on the rear and 6 screws ② on both sides to detach the Top Cover as shown in the arrow direction.


Top Cover
①
②
②

2. Front Panel

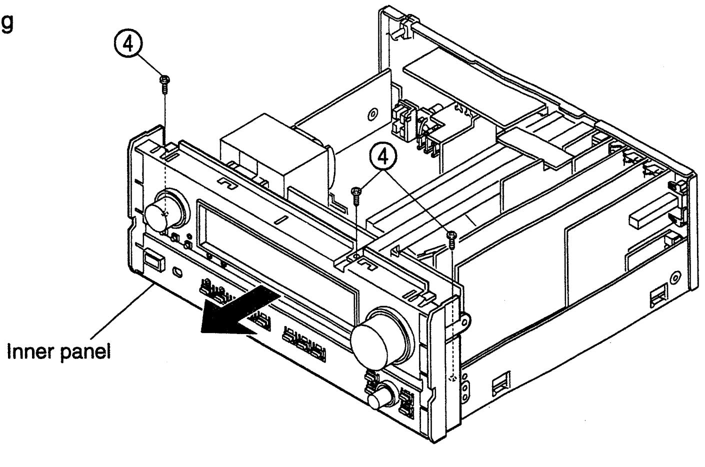
(1) Remove 7 screws ③ from the top and bottom edges of the Front Panel.

(2) Release 4 top and bottom hooks, then detach the Front Panel as shown in the arrow direction.


③
Hook
Front panel
Hook
③
Hook
Hook
③

3. Inner Panel

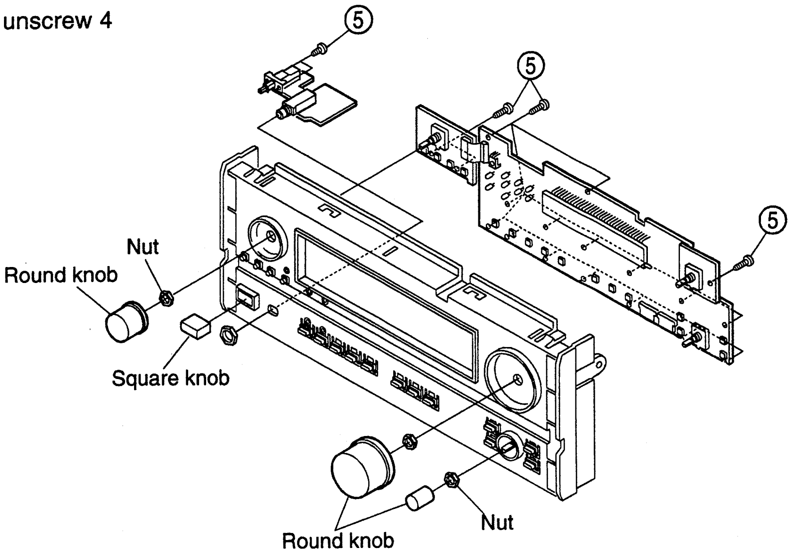
Pull out the Inner Panel in the arrow direction after removing 3 screws ④.


④
④
Inner panel

4. Inner Panel Ass'y

(1) Remove 3 round and 1 square knobs, and unscrew 4 nuts.

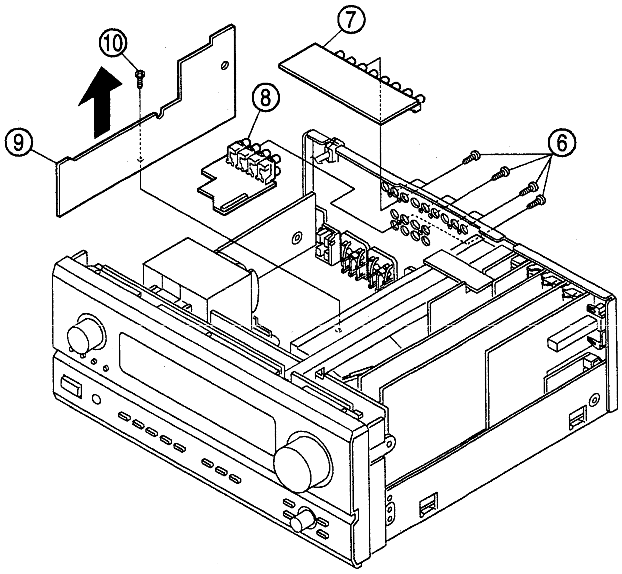
(2) Remove 19 screws ⑤ fixing each P.W.B.


⑤
⑤
⑤
Nut
Round knob
Square knob
Round knob
Nut

5. Amp Unit

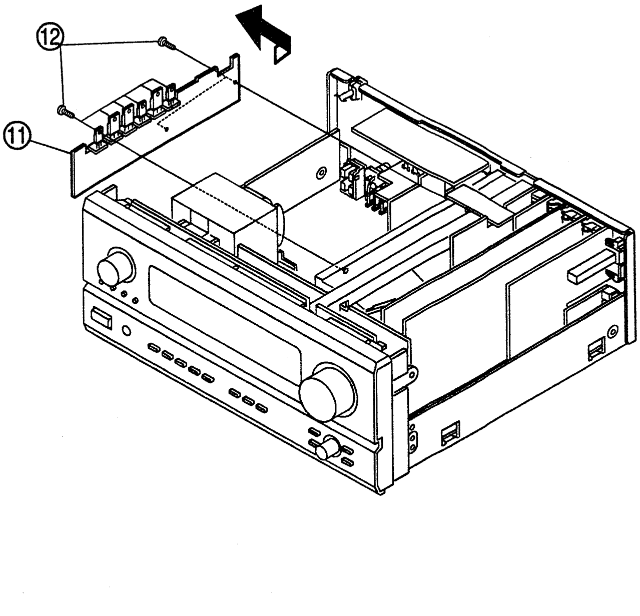
(1) Remove 8 screws ⑥ to detach Component Video Unit ⑦ and Pre-out Unit ⑧.

(2) Take off the Amp Unit ⑨ as shown in the arrow direction after removing 1 screw ⑩.



6. Regulator Unit

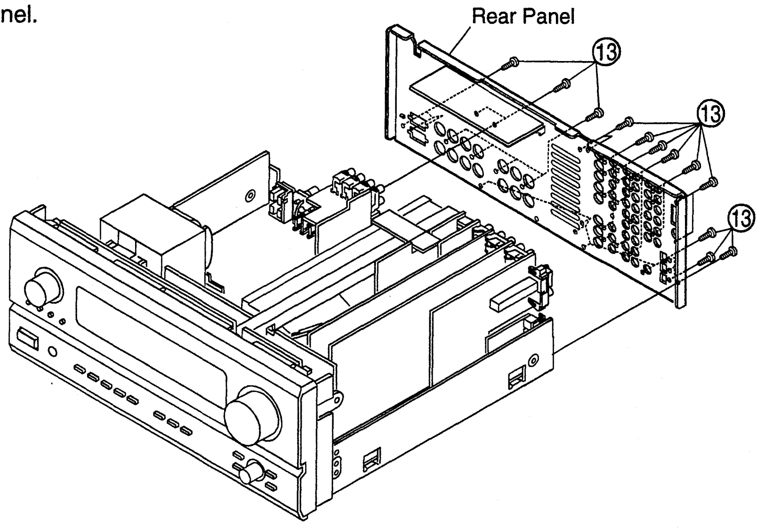
Take off the Regulator Unit ⑪ as shown in the arrow direction after removing 8 screws ⑫.



7. S-Video / C-video / Audio-in & DSP / Ext-in & VR / Digital-in / Tuner Unit

(1) Remove 37 screws ⑬ to detach the Rear Panel.

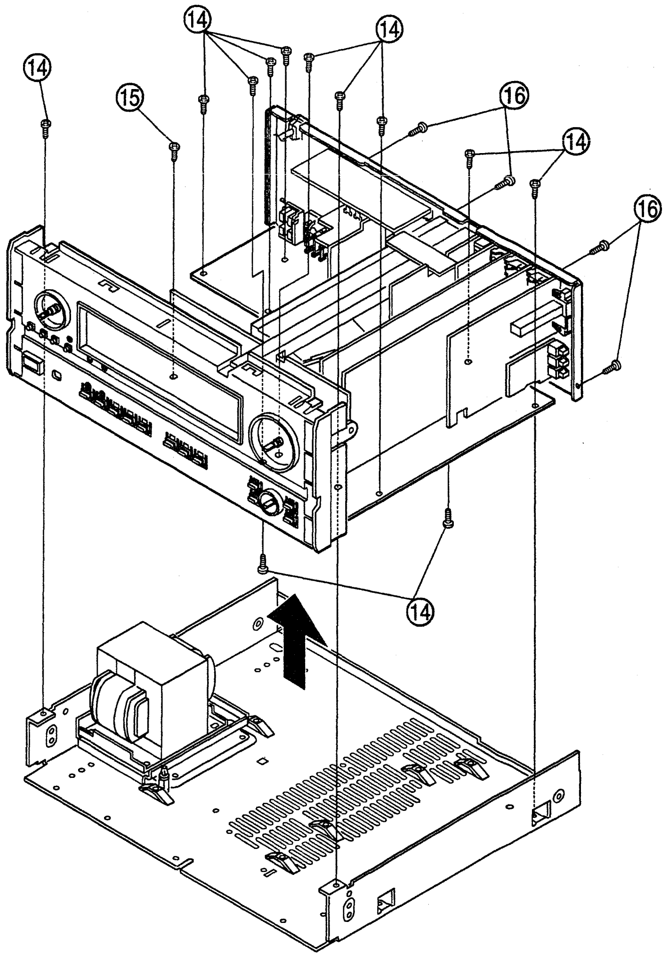
(2) Take off the objective P.W.B. upward.



8. How to Check Power Amp / μ-com Unit with Power-on

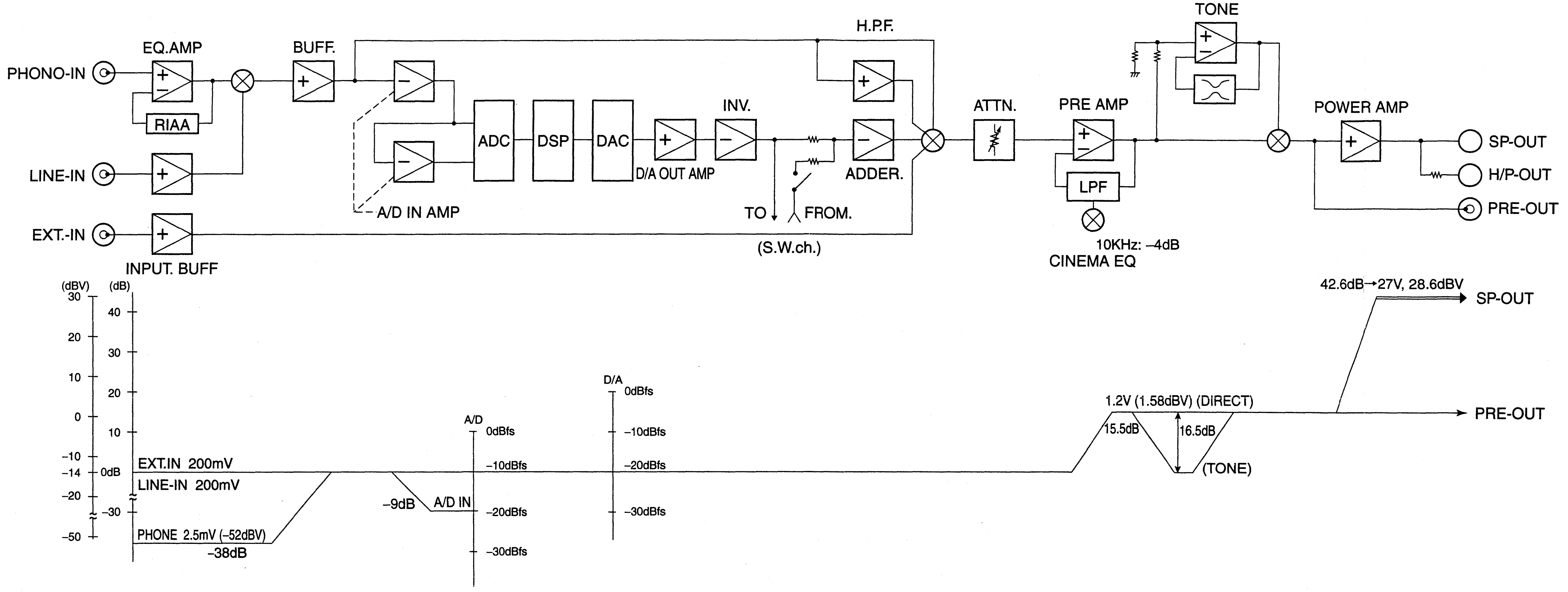
(1) Remove 12 screws ⑭, 1 screw ⑮, and 4 screws ⑯ fixing to the Chassis.

(2) Pull up the Unit to separate from the Chassis.

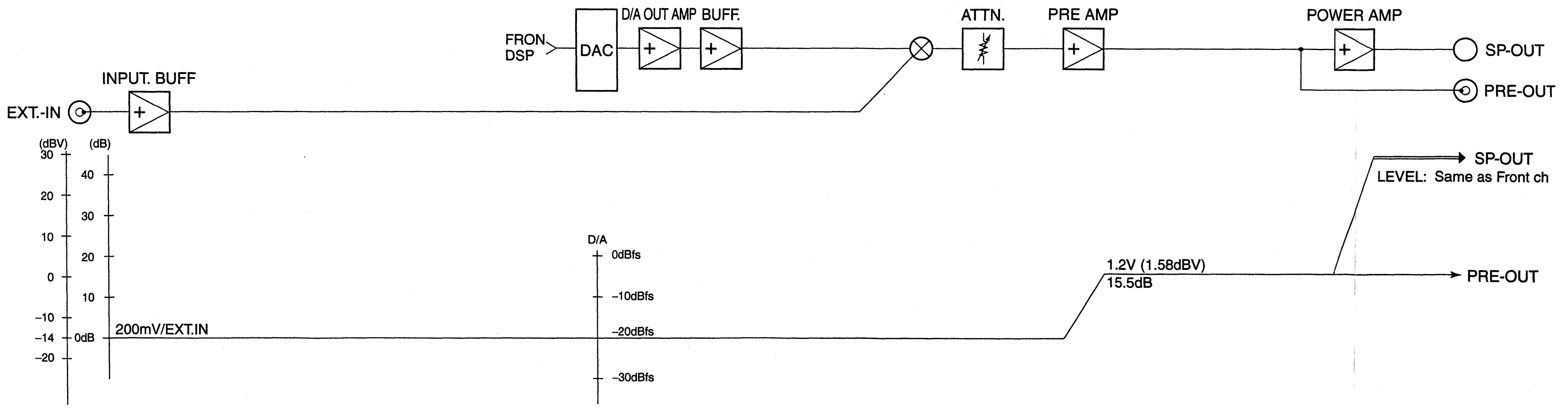


LEVEL DIAGRAM

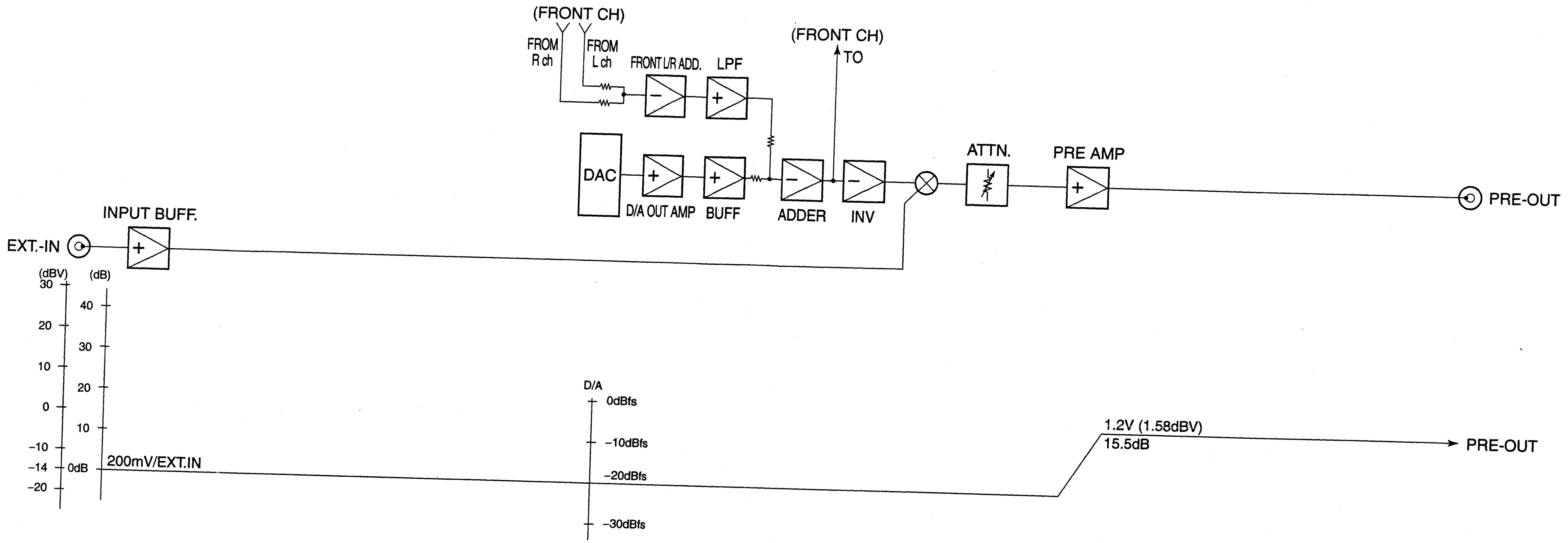
FRONT


EQ.AMP
BUFF.
H.P.F.
TONE
PHONO-IN
RIAA
ADC
DSP
DAC
INV.
ATTN.
PRE AMP
POWER AMP
D/A OUT AMP
ADDER.
SP-OUT
H/P-OUT
PRE-OUT
LINE-IN
A/D IN AMP
TO
FROM.
LPF
EXT.-IN
(S.W.ch.)
10KHz: –4dB
CINEMA EQ
INPUT. BUFF
(dBV)
(dB)
42.6dB→27V, 28.6dBV
SP-OUT
D/A
0dBfs
1.2V (1.58dBV) (DIRECT)
PRE-OUT
A/D
0dBfs
–10dBfs
15.5dB
16.5dB
EXT.IN 200mV
–10dBfs
–20dBfs
(TONE)
LINE-IN 200mV
–9dB
A/D IN
–20dBfs
–30dBfs
PHONE 2.5mV (–52dBV)
–38dB
–30dBfs
30
20
10
0
–10
–14
–20
–50
40
30
20
10
0dB
–30

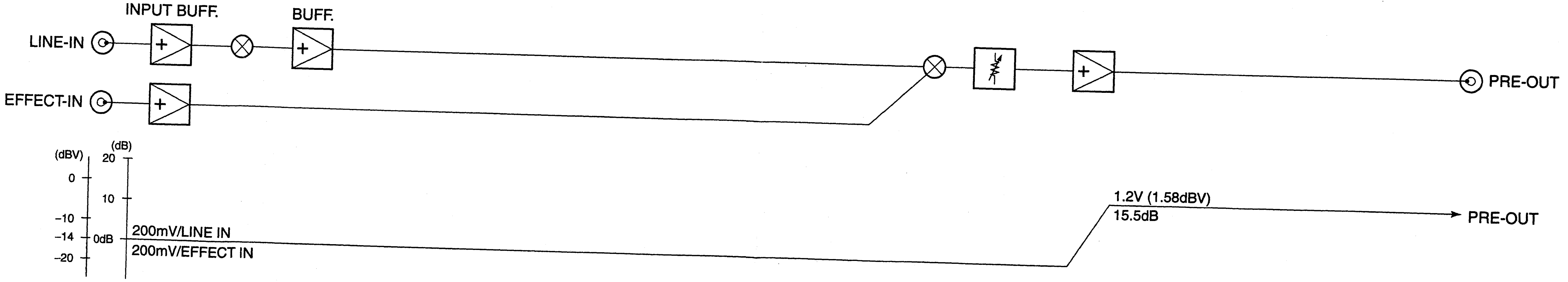
CENTER SURROUND


D/A OUT AMP
BUFF.
ATTN.
PRE AMP
POWER AMP
FRON
DSP
DAC
SP-OUT
PRE-OUT
INPUT. BUFF
EXT.-IN
(dBV)
(dB)
SP-OUT
LEVEL: Same as Front ch
D/A
0dBfs
1.2V (1.58dBV)
15.5dB
PRE-OUT
–10dBfs
200mV/EXT.IN
–20dBfs
–30dBfs
30
20
10
0
–10
–14
–20
40
30
20
10
0dB

SUBWOOFER

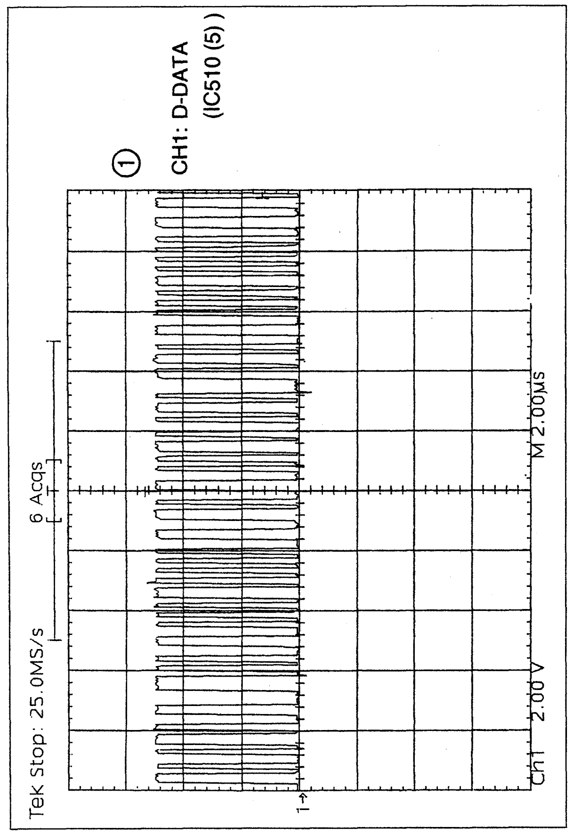

(FRONT CH)
FROM R ch
FROM L ch
FRONT L/R ADD.
LPF
(FRONT CH)
TO
DAC
D/A OUT AMP
BUFF
ADDER
INV
ATTN.
PRE AMP
PRE-OUT
INPUT BUFF.
EXT.-IN
(dBV)
(dB)
30
20
10
0
−10
−14
−20
40
30
20
10
0dB
200mV/EXT.IN
D/A
0dBfs
−10dBfs
−20dBfs
−30dBfs
1.2V (1.58dBV)
15.5dB
PRE-OUT

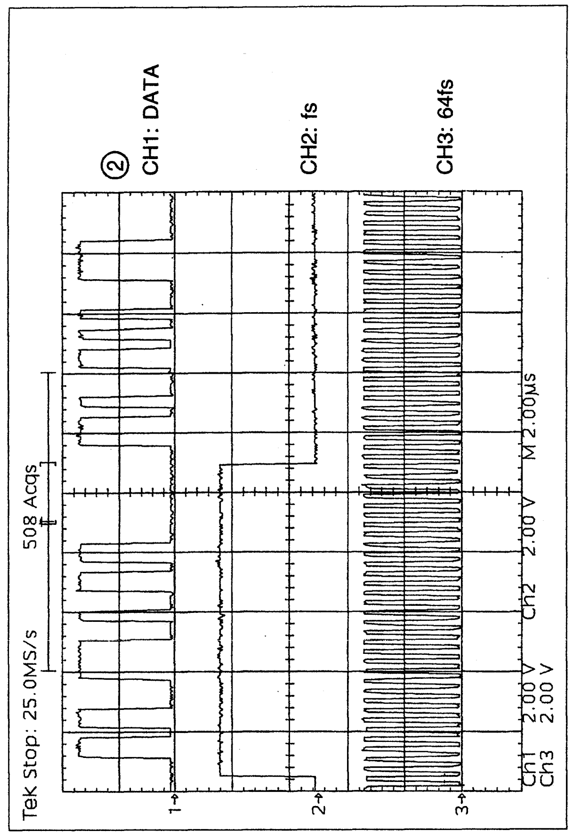
MULTI ROOM EFFECT IN

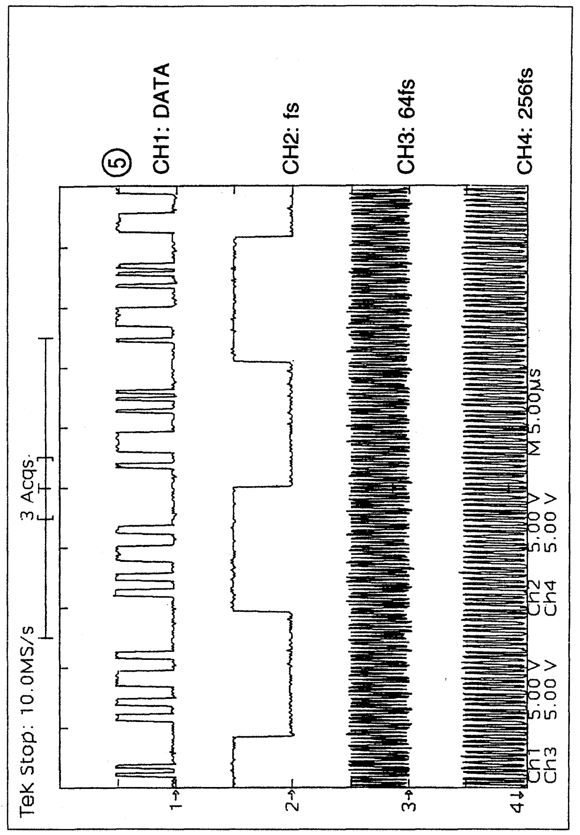

INPUT BUFF.
BUFF.
LINE-IN
EFFECT-IN
PRE-OUT
(dBV)
(dB)
20
0
10
−10
−14
0dB
−20
200mV/LINE IN
200mV/EFFECT IN
1.2V (1.58dBV)
15.5dB
PRE-OUT

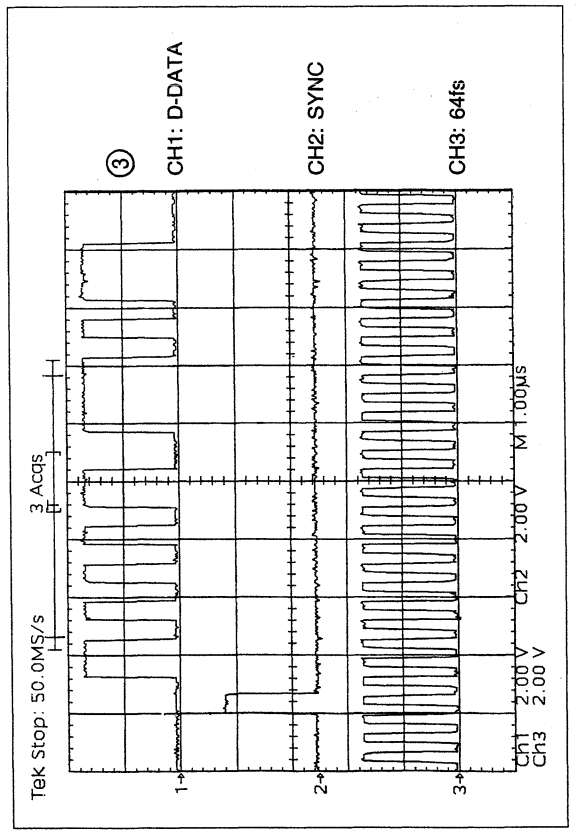
CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

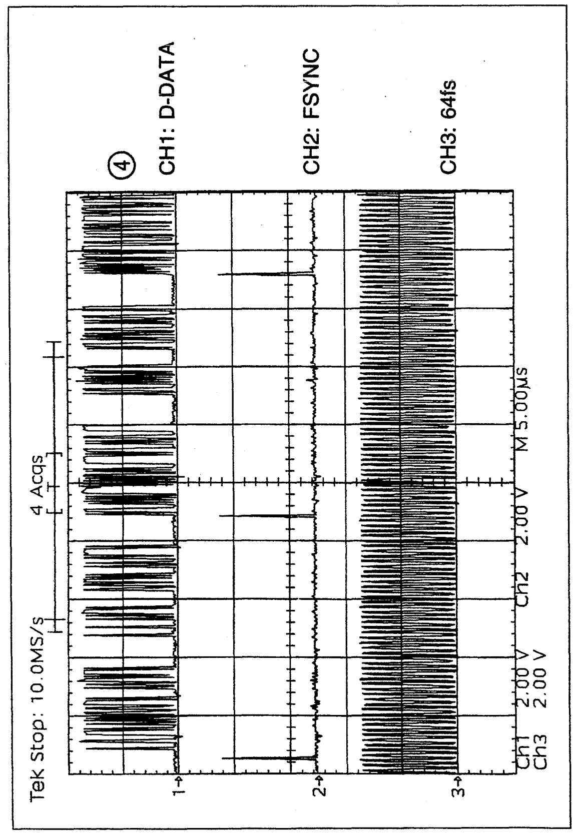
Wave Form



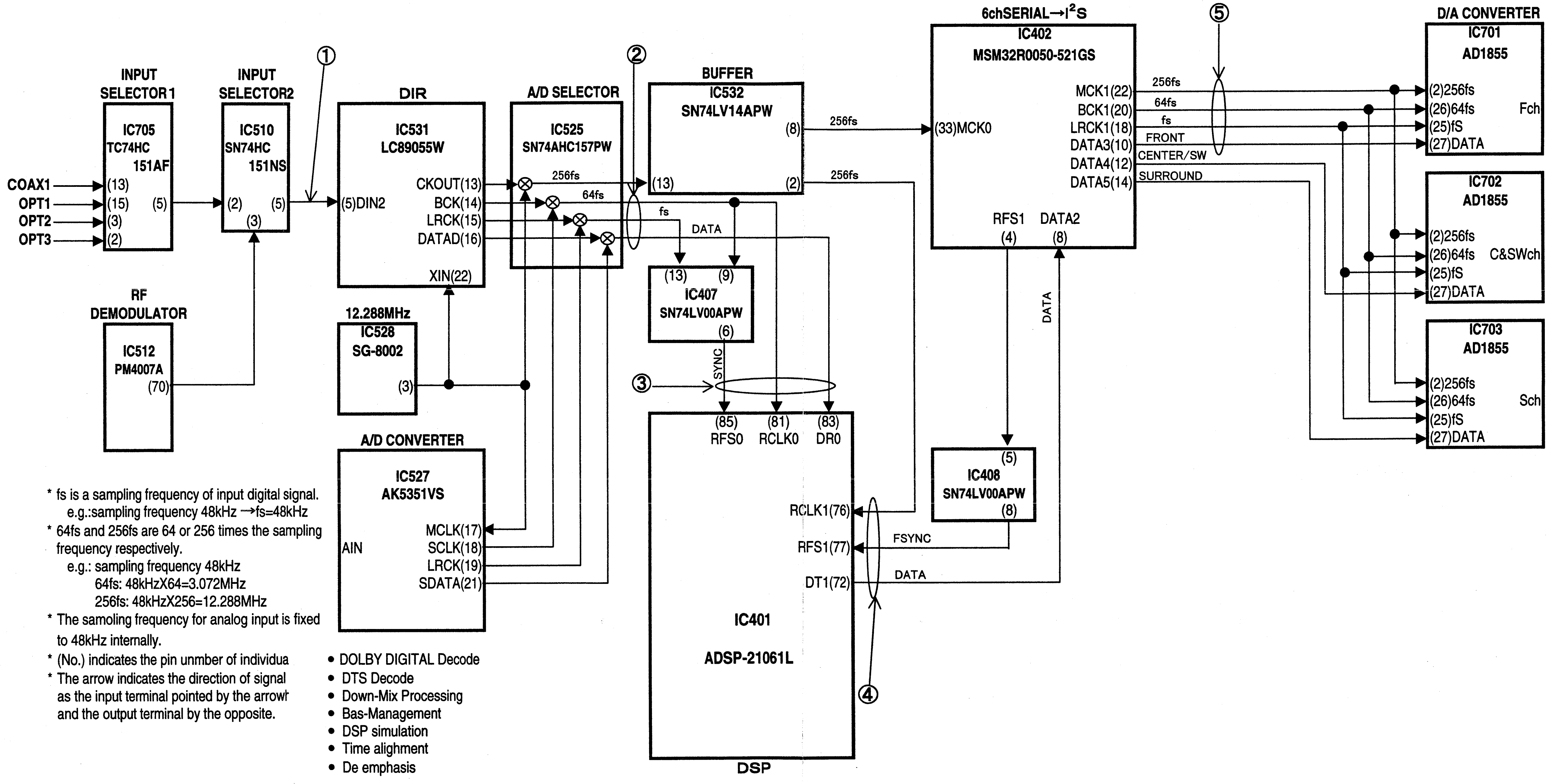








Clock Flow


INPUT SELECTOR 1
IC705
TC74HC151AF
COAX1
OPT1
OPT2
OPT3
(13)
(15)
(3)
(2)
(5)
INPUT SELECTOR2
IC510
SN74HC151NS
(2)
(5)
(3)
RF DEMODULATOR
IC512
PM4007A
(70)
①
DIR
IC531
LC89055W
(5)DIN2
CKOUT(13)
BCK(14)
LRCK(15)
DATAD(16)
XIN(22)
12.288MHz
IC528
SG-8002
(3)
A/D CONVERTER
IC527
AK5351VS
AIN
MCLK(17)
SCLK(18)
LRCK(19)
SDATA(21)
A/D SELECTOR
IC525
SN74AHC157PW
256fs
64fs
②
fs
DATA
BUFFER
IC532
SN74LV14APW
(8)
(13)
(2)
256fs
256fs
(13)
(9)
IC407
SN74LV00APW
(6)
SYNC
③
(85)
RFS0
(81)
RCLK0
(83)
DR0
RCLK1(76)
RFS1(77)
DT1(72)
IC401
ADSP-21061L
DSP
④
FSYNC
DATA
6chSERIAL→I²S
IC402
MSM32R0050-521GS
(33)MCK0
MCK1(22)
BCK1(20)
LRCK1(18)
DATA3(10)
DATA4(12)
DATA5(14)
RFS1
(4)
DATA2
(8)
DATA
(5)
IC408
SN74LV00APW
(8)
⑤
256fs
64fs
fs
FRONT
CENTER/SW
SURROUND
D/A CONVERTER
IC701
AD1855
(2)256fs
(26)64fs
(25)fS
(27)DATA
Fch
IC702
AD1855
(2)256fs
(26)64fs
(25)fS
(27)DATA
C&SWch
IC703
AD1855
(2)256fs
(26)64fs
(25)fS
(27)DATA
Sch

* fs is a sampling frequency of input digital signal.
e.g.:sampling frequency 48kHz →fs=48kHz

* 64fs and 256fs are 64 or 256 times the sampling frequency respectively.
e.g.: sampling frequency 48kHz
64fs: 48kHzX64=3.072MHz
256fs: 48kHzX256=12.288MHz

* The samoling frequency for analog input is fixed to 48kHz internally.

* (No.) indicates the pin unmber of individua

* The arrow indicates the direction of signal as the input terminal pointed by the arrowh and the output terminal by the opposite.

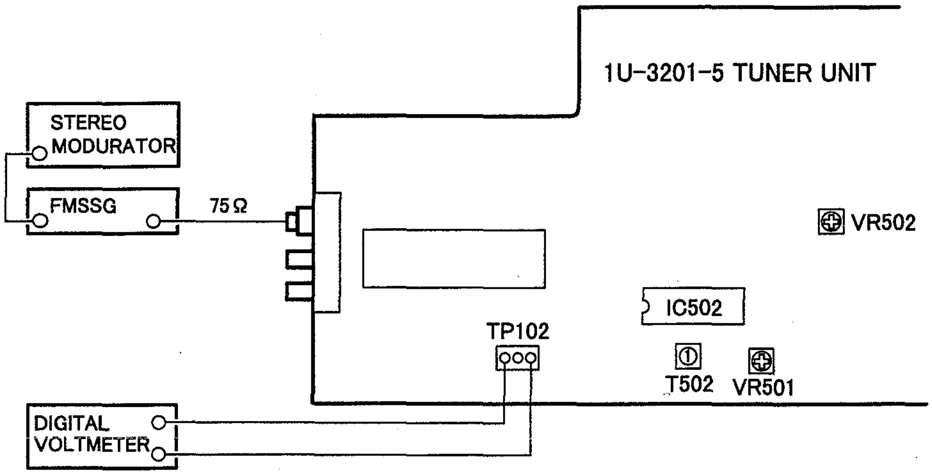
- DOLBY DIGITAL Decode
- DTS Decode
- Down-Mix Processing
- Bas-Management
- DSP simulation
- Time alighment
- De emphasis

ADJUSTMENT

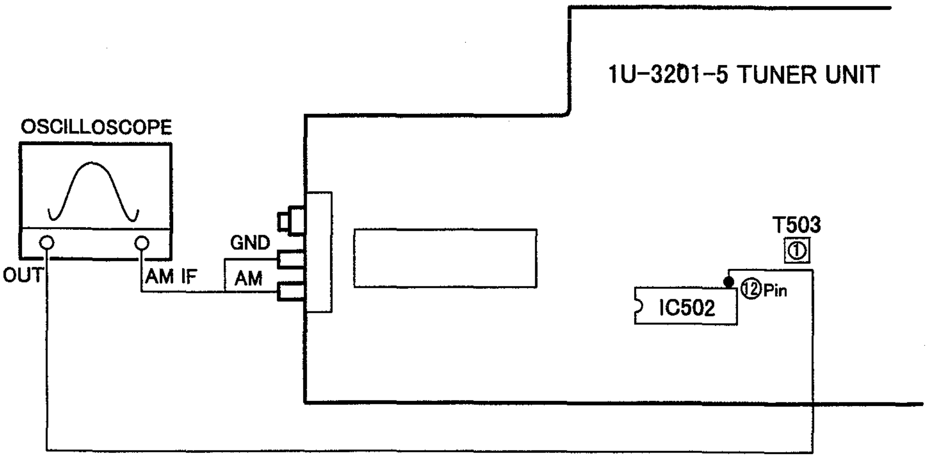
Tuner Section

CONNECTION DIAGRAM OF MEASURING INSTRUMENTS

- **FM**


1U-3201-5 TUNER UNIT
STEREO MODURATOR
FMSSG
75Ω
VR502
IC502
TP102
T502
VR501
DIGITAL VOLTMETER

- **AM**


1U-3201-5 TUNER UNIT
OSCILLOSCOPE
OUT
AM IF
GND
AM
T503
⑫Pin
IC502

FM/MPX ALIGNMENT

Step	Alignment Item	Tuning Frequency Setting	Input					Output		Adjust		Remarks
			Type	Frequency	Input Level	Modulation	Coupling	Type	Connect to	Points	Adjust to	
1	Tuning Center	98.1 MHz	FM SSG	98.1 MHz	60 dBμ	None	Antenna Terminal	Digital Voltmeter	TP102	T502	± 50mV	Function : FM Mode : Auto
2	Separation	98.1 MHz	FM SSG	98.1 MHz	60 dBμ	Stereo (L) 1KHz 100%	Antenna Terminal	AC Voltmeter	AUDIO OUT Terminal (R)	VR502	Maximum Separation	—
3	Signal Level	98.1 MHz	FM SSG	98.1 MHz	20 dBμ	Off	Antenna Terminal	—	—	VR501	Light "TUNED" FLD Character	—

AM ALIGNMENT

Step	Alignment Item	Frequency	Input	Output		Adjustment		Remarks
				Type	Connect to	Points	Adjust to	
1	IF	—	IF SWEEP (Input level is not over to work A.G.C.)	Oscilloscope	IC502 12Pin	T503	Maximum height and best symmetry curve	

Audio Section

Idling Current (1U-3198-1)

Required measurement equipment : DC Voltmeter

Preparation

(1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room tempereture 15 °C ~ 30 °C (59 °F ~ 86 °F).

(2) Presetting
- ● POWER (Power sourse switch) → OFF
- ● SPEAKER (Speaker terminal) → No load (Do not connect speaker, dummy resistor, etc.)

Adjustment

(1) Remove top cover and set VR501, VR502, VR503, VR504, VR505, on 1U-3198-1 (Power Unit) at counterclockwise (↺) fully.

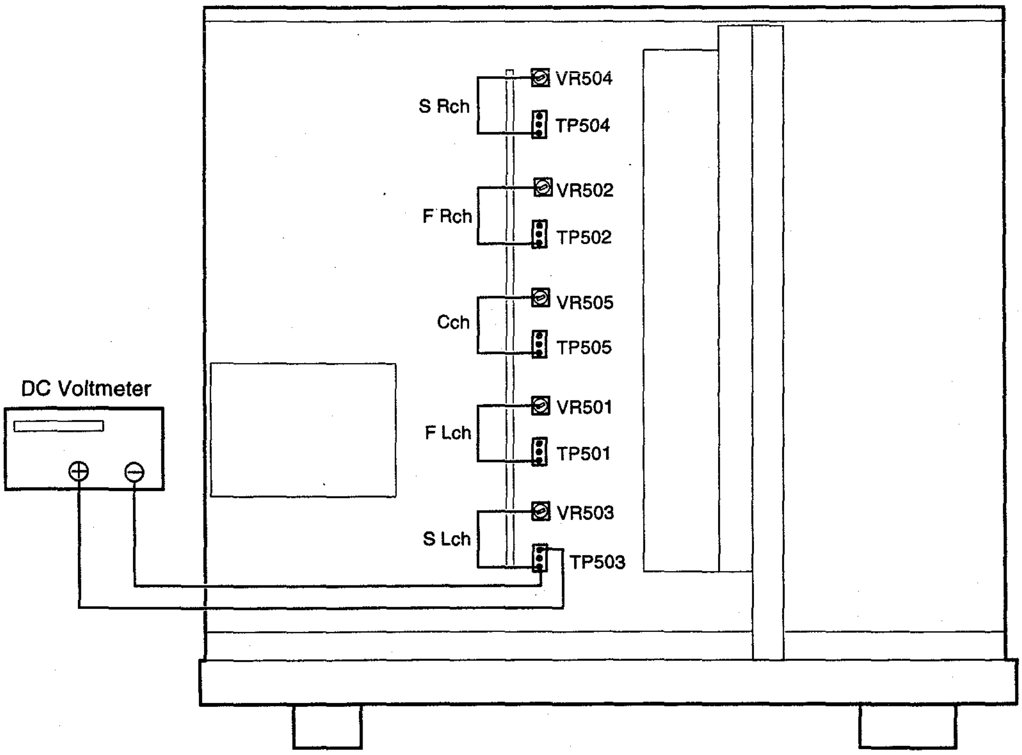
(2) Connect DC Voltmeter to test points (FRONT-Lch: TP501, FRONT-Rch: TP502, CENTER ch: TP505, SURROUND-Lch: TP503, SURROUND-Rch: TP504).

(3) Connect power cord to AC Line, and turn power switch "ON".

(4) Presetting.
MASTER VOLUME : "---" counterclockwise (↺ min.)
MODE : 5CH STEREO
FUNCTION : CD

(5) Allow 2 minutes, and turn VR501 clockwise (↻) and adjust the TEST POINT voltage to 1.5 mV ±0.5 mV DC.

(6) After 10 minutes from preset, turn VR501 to set the voltage to 3 mV ±0.5 mV DC.
(7) Adjust the Variable Resistors of other channels in the same way.
(8) After 5 minutes from (6), turn VR501 to set the voltage to 3 mV ±0.5 mV DC.
(9) Adjust the Variable Resistors of other channels in the same way.



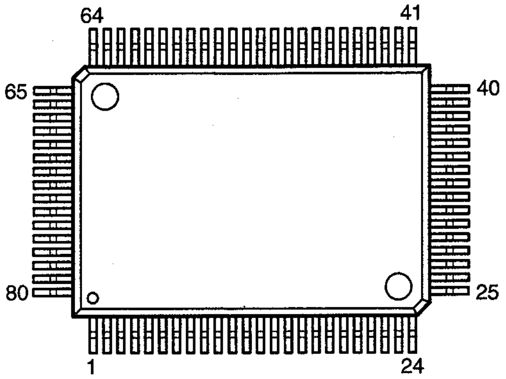
SEMICONDUCTORS

● IC's

Note: Abbreviation ahead of IC No. indicates the name of P.W.B.

PO: Power P.W.B.	RE: Requlator P.W.B.
EX: Exit in P.W.B.	AU: Audio/DSP P.W.B.
CO: Control P.W.B.	VI: Video P.W.B.

TMP88CU74F
(CO: IC303)



TMP88CU74F Terminal Function

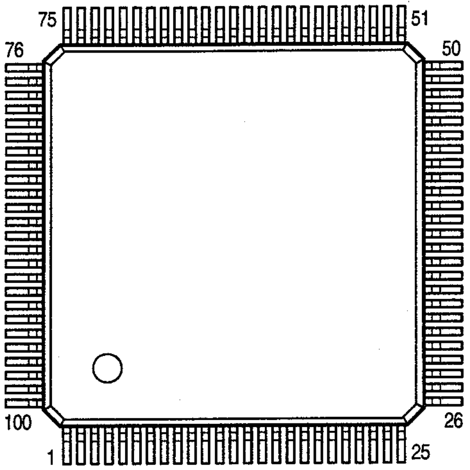
Pin No.	Name	Symbol	I/O	Type	Op	Det	Res	Init	Function
1	P02/S01	RDS RESET	O	C	—	—	Z	L	RDS reset output (LC7074)
2	P03	OSD RST	O	C	—	—	Z	H	OSD control output (M35015)
3	P04	ST/MONO	O	C	—	—	Z	L	STEREO/MONO control signal, L: STEREO
4	P05	PLFL DATA	O	C	—	—	Z	L	PLL, FL control terminal (LC72131 & LC75721NE)
5	P06	PLL STB	O	C	—	—	Z	L	PLL control terminal (LC72131)
6	P07	PLFL CLK	O	C	—	—	Z	L	PLL, FL control terminal (LC72131 & LC75721NE)
7	Vss	Vss	I	—	GND	—	—	L	GND
8	Xout	Xout	O	—	—	—	—	—	XTAL
9	Xin	Xin	I	—	—	—	—	—	XTAL
10	RESET_	RESET_	I	—	Eu	Lv	L	—	Reset input
11	P22/XTOUT	TUNED_	I	—	Eu	Lv	Z	—	Tuning detect, L: Tuned
12	P21/XTIN	STEREO_	I	—	Eu	Lv	Z	—	L: At stereo receive
13	TEST	TEST	I	—	GND	S	—	—	Connect to GND
14	P20/INT5_	B.DOWN_	I	—	Eu	Lv	Z	—	Power down detect, L: Power down
15	P10/INT0_	PROTECT_	I	—	Ed	E&L	Z	—	PROTECTION detect input, H: Detect
16	P11/INT1	RDS START	I	—	—	—	Z	L	RDS data input (LC7074)
17	P12	OSD CLK	O	C	—	—	Z	H	OSD control output (M35015)
18	P13	OSD CS	O	C	—	—	Z	H	OSD control output (M35015)
19	P14	OSD DATA	O	C	—	—	Z	L	OSD control output (M35015)
20	P15/INT3	REMOCON	I	—	Ed	E&L	Z	—	Remote control signal input
21	P16/INT2	ACK	O	C	—	—	Z	L	MAIN-SUB CPU comm. control terminal
22	P17/INT4	REQ	I	—	Eu	—	Z	L	MAIN-SUB CPU comm. control terminal
23	P30/SCL	SI	I						MAIN-SUB CPU comm. control terminal
24	P31/SDA	SO	O	C					MAIN-SUB CPU comm. control terminal
25	P32/SCK0_	CLK	O	C					MAIN-SUB CPU comm. control terminal
26	P40/AIN0	MODE	I	—	Eu	Lv	Z	—	Destination switching input
27	P41/AIN1	KEY1	I	—	Eu	Lv	Z	—	Button input 1
28	P42/AIN2	KEY2	I	—	Eu	Lv	Z	—	Button input 2
29	P43/AIN3	KEY3	I	—	Eu	Lv	Z	—	Button input 3
30	P44/AIN4	FUNC STB1	O	C	—	—	Z	—	Function control output (TC9274N), INPUT
31	P45/AIN5	FUNC/T. CON CLK	O	C	—	—	Z	L	Function control output (TC9274N, TC9273), TONE control output (TC9184P)
32	P46/AIN6	FUNC/T. CON DATA	O	C	—	—	Z	L	Function control output (TC9274N, TC9273), TONE control output (TC9184P)
33	P47/AIN7	FUNC STB2	O	C	—	—	Z	L	Function control output (TC9274N), 6CH/8CH EXT.IN
34	P50/AIN8	E.VOL STB	O	C	—	—	L	L	Elect. volume control output (TC9459)
35	P51/AIN9	TONE STB	O	C	—	—	L	L	TONE control output (TC9184P)
36	P52/AIN10	E.VOL DATA	O	C	—	—	L	H	Elect. volume control output (TC9459)
37	P53/AIN11	E.VOL CLK	O	C	—	—	L	H	Elect. volume control output (TC9459)

Pin No.	Name	Symbol	I/O	Type	Op	Det	Res	Init	Function
38	VASS	VASS	I						Ref. volt (GND)
39	VAREF	VAREF	I						Ref. volt (VDD)
40	VDD	VDD	I						Power supply
41	P60	FL CE	O	P	Ed	S	L	H	FL display control output (LC75712NE)
42	P61	FL RES	O	P	Ed	S	L	H	FL display control output (LC75712NE)
43	P62	FUNC STB3	O	P	Ed	—	Z	L	Function control output (TC9273), REC OUT
44	P63	SA-RELAY	O	P	Id	—	L	L	Surround SP relay A control terminal, L: Mute
45	P64	SB-RELAY	O	P	Id	—	L	L	Surround SP relay B control terminal, L: Mute
46	P65	C-RELAY	O	P	Id	—	L	L	Center SP relay control terminal, L: Mute
47	P66	F-RELAY	O	P	Id	—	L	H	Front SP relay control terminal, L: Mute
48	P67	PRE F MUTE	O	P	Ed	—	L	H	Front PRE OUT mute control terminal, L: Mute
49	P70	PRE C MUTE	O	P	Ed	—	L	L	Center PRE OUT mute control terminal, L: Mute
50	P71	PRE S MUTE	O	P	Ed	—	L	L	Surround PRE OUT mute control terminal, L: Mute
51	P72	SUB WOOFER MUTE	O	P	Ed	—	L	H	Sub-woofer PRE OUT mute control terminal, L: Mute
52	P73	H/P RELAY	O	P	Id	—	L	H	H/P OUT relay control terminal, L: Mute
53	P74	EXP OE	O	P	Ed	—	L	H	Port expander control terminal (TC4094B)
54	P75	EXP CLK	O	P	Ed	—	L	L	Port expander control terminal (TC4094B)
55	P76	EXP DATA	O	P	Ed	—	L	L	Port expander control terminal (TC4094B)
56	P77	EXP STB	O	P	Ed	—	L	L	Port expander control terminal (TC4094B)
57	P80	POWER	O	P	Id	—	L	H	Power relay control output, H: ON
58	P81	RESET2	O	P	Id	—	L	L	Reset signal output to sub-CPU, H: Reset
59	P82	SUB-CPU-B-DOWN	O	P	Id	—	L	L	B-DOWN signal output to sub-CPU
60	P83	TAPE MON. LED	O	P	Id	—	L	L	TAPE MONITOR LED indicator control, H: MONITOR
61	P84	STANDBY	O	P	Id	—	L	H	Standby LED drive output H: Light
62	P85	DIRECT	O	P	Id	—	L	L	DIRECT relay control, H: DIRECT
63	P86	S1	O	P	Id	—	L	—	Video signal switching control output
64	P87	S2	O	P	Id	—	L	—	Video signal switching control output
65	P90	TUNER MUTE	O	P	Ed	—	L	H	TUNER mute control terminal, H: Mute
66	P91	MULTI/EFFECT MUTE	O	P	Id	—	L	H	MULTI/EFFECT PREOUT mute control terminal, H: Mute
67	P92	S MONI DET	I	—	Eu	Lv	Z	—	S monitor connection detect input, L: Connected
68	P93	S SIG DET	I	—	Eu	Lv	Z	—	S signal detect input, H: Detected
69	P94	SYNC DET.	I	—	Eu	Lv	Z	—	Sync detect input, H: Ext. sync
70	P95	SEL A (M)	I	—	Eu	Lv	Z	—	Master volume rotation detect input (rotary encoder)
71	P96	SEL B (M)	I	—	Eu	Lv	Z	—	Master volume rotation detect input (rotary encoder)
72	P97	CINEMA EQ	O	P	Eu	Lv	Z	L	CINEMA EQ control output, H: ON
73	PD0	VOL MUTE	O	P	Ed	—	L	L	Master volume minimum control, L: Min.
74	PD1	SEL C (S)	I	—	Eu	Lv	Z	—	Surround mode rotation detect input (rotary encoder)
75	PD2	SEL D (S)	I	—	Eu	Lv	Z	—	Surround mode rotation detect input (rotary encoder)
76	PD3	SEL E (F)	I	—	Eu	Lv	Z	—	Input selector switch rotation detect input (rotary encoder)
77	PD4	SEL F (F)	I	—	Eu	Lv	Z	—	Input selector switch rotation detect input (rotary encoder)
78	Vkk	Vkk	—	—	—	—	—	—	GND fixed
79	P00/SCK1_	RDS CLK	I	—	—	S	Z	—	RDS clock input (LC7074)
80	P01/SI1	RDS DATA	I	—	—	S	Z	—	RDS data input (LC7074)

NOTE:

Pin No. : Terminal number of microcomputer.
Port Name : The name entered in the data sheet of microcomputer.
Symbol : Symbolized interface function.
I/O : Input or out of part.
"I" = Input port
"O" = Output port
Type : Composition of port in case of output port.
"C" = CMOS output
"N" = NMOS open drain output
"P" = PMOS open drain output
Op : Pull up/Pull down selection information.
"Iu" = Inner microcomputer pull up
"Id" = Inner microcomputer pull down
"Eu"= External microcomputer pull up
"Ed"= External microcomputer pull down
Det : Indicates judging state of input port. Level detection is "LV"; Edge detection is "Ed"; Detection by both shifting is "E&L"; Serial data detection is "S" (Serial data output is also "S").
Res : State at reset.
"H" = Outputs High Level at reset
"L" = Outputs Low Level at reset
"Z" = Becomes High impedance mode at reset
Ini : Initial output state.
Function : Function and logical level explanation of signals to be interface.

TMP93CS41F (AU: IC301)

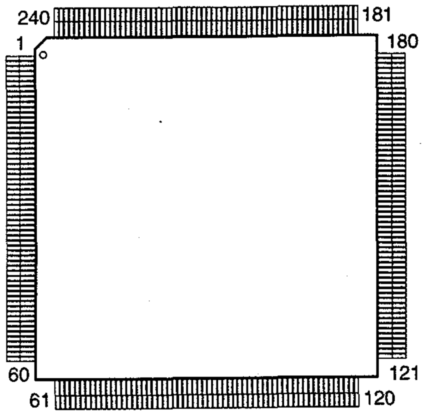


TMP93CS41F Terminal Function

Pin No.	Name	Symbol	I/O	Type	Op	Det	Res	Init	Function
1	V REFL		—	—	—	—	—	—	A/D ref. GND
2	A Vss	←	—	—	—	—	—	—	A/D GND
3	A Vcc	←	—	—	—	—	—	—	AD +5V
4	_NMI		I	—	—	—	—	—	Not used (fixed to H)
5	P70/TI0	_DEMOD RESET	O	C	Ed	—	L	L	Demodulator reset output (L: Reset)
6	P71/TO1	DEMOD ON	O	C	Ed	—	L	L	Demodulator osc. control output (H: Osc.)
7	P72/TO2	FAN1	O	C	Ed	—	L	L	FAN control output (H: ON, L: OFF)
8	P73/TO3	FAN2	O	C	Ed	—	L	L	FAN control output (H: Hi, L: Low & off)
9	P80/INT4/TI4	B.DOWN_	I	—	Eu	E↓&L	Z	—	Power down detect (L: Detected)
10	P81/INT5/TI5	DSP ACK	I	—	—	E↑&L	—	—	Host I/F comm. response input (L: OK)
11	P82/TO4	AC-3 RF DET	I	—	—	E↓&L	—	—	AC-3 RF signal judge input (L: AC-3 data input)
12	P83/TO5	_REQ	O	C	Eu	—	H	L	MAIN-SUB CPU comm. control output (L: Comm. request from sub)
13	P84/INT6/TI6	_ACK	I	—	Eu	E↓&L	—	—	MAIN-SUB CPU comm. control input (L: Ack. return from main)
14	P85/INT7/TI7	ERR	I	—	—	E↑&L	—	—	DIR control input terminal (LC89055Q)(H: ERR)
15	P86/TO6	_DSP RESET	O	C	Ed	—	L	L	DSP reset output terminal (L: Reset)
16	P97/INT0	_CS	I	—	Ed	E↑&L	—	—	DIR control input terminal (LC89055Q), when CH status change L→H
17	P90/TXD0	SI	O	C					MAIN-SUB CPU comm. control terminal (data output)
18	P91/RXD0	SO	I	—					MAIN-SUB CPU comm. control terminal (data input)
19	P92/_CTS0/SCLK0	CLK	I/O	C					MAIN-SUB CPU comm. control terminal (I2C clock in/output)
20	P93/TXD1		O	C	—	—	Z	L	
21	P94/RXD1	DIR MISO	I	—	—	Lv	—	—	DIR control input terminal (LC89055Q) control data input
22	P95/SCLK1	DIR CLK	O	C	—	—	Z	L	DIR control terminal (LC89055Q) control clock output
23	AM8/_16	←	—	—	—	—	—	—	Fixed to +5V
24	CLK		O	C	Eu	—	—	—	
25	Vcc	←	—	—	—	—	—	—	+5V
26	Vss	I/O1	—	—	—	—	—	—	GND
27	X1	Xin	I	—	—	—	—	—	X'tal connection
28	X2	Xout	O	—	—	—	—	—	X'tal connection
29	_EA	←	—	—	—	—	—	—	Fixed to +5V
30	_RESET	RESET2_	I	—	Eu	Lv	L	—	Reset input (controlled by main CPU)
31	P96/XT1	A/D RESET	O	N	Eu	—	H	H	A/D control terminal (L: Reset)
32	P97/XT2	ASIC-RESET	O	N	Eu	—	H	H	ASIC control terminal (L: Reset)
33	TEST1	←	I	—	—	—	—	—	Connected to TEST2
34	TEST2	←	I	—	—	—	—	—	Connected to TEST1
35	PA0	DINA	O	C	Ed	—	L	L	Digital input switching control output
36	PA1	DINB	O	C	Ed	—	L	L	Digital input switching control output
37	PA2	DINC	O	C	Ed	—	L	L	Digital input switching control output
38	PA3	DIND	O	C	Ed	—	L	L	Digital input switching control output
39	PA4	DINE	O	C	Ed	—	L	L	
40	PA5		O	C	Ed	—	L	L	

Pin No.	Name	Symbol	I/O	Type	Op	Det	Res	Init	Function
41	PA6		O	C	Ed	—	L	L	
42	PA7/SCOUT	96k-DAC	O	C	Ed	—	L	L	DAC control terminal (H: Sample frequency 96kHz)
43	ALE	←	O	C	—	—	L	L	Address latch enable
44	Vcc		—	—	—	—	—	—	+5V
45	P00/AD0	AD0	I/O	C	—	—	Z	L	EPROM data in D0 / address out A0
46	P01/AD1	AD1	I/O	C	—	—	Z	L	EPROM data in D1 / address out A1
47	P02/AD2	AD2	I/O	C	—	—	Z	L	EPROM data in D2 / address out A2
48	P03/AD3	AD3	I/O	C	—	—	Z	L	EPROM data in D3 / address out A3
49	P04/AD4	AD4	I/O	C	—	—	Z	L	EPROM data in D4 / address out A4
50	P05/AD5	AD5	I/O	C	—	—	Z	L	EPROM data in D5 / address out A5
51	P06/AD6	AD6	I/O	C	—	—	Z	L	EPROM data in D6 / address out A6
52	P07/AD7	AD7	I/O	C	—	—	Z	L	EPROM data in D7 / address out A7
53	P10/AD8/A8	A8	O	C	—	—	Z	L	EPROM address out A8
54	P11/AD9/A9	A9	O	C	—	—	Z	L	EPROM address out A9
55	P12/AD10/A10	A10	O	C	—	—	Z	L	EPROM address out A10
56	P13/AD11/A11	A11	O	C	—	—	Z	L	EPROM address out A11
57	P14/AD12/A12	A12	O	C	—	—	Z	L	EPROM address out A12
58	P15/AD13/A13	A13	O	C	—	—	Z	L	EPROM address out A13
59	P16/AD14/A14	A14	O	C	—	—	Z	L	EPROM address out A14
60	P17/AD15/A15	A15	O	C	—	—	Z	L	EPROM address out A15
61	_WDTOUT	←	O	C	—	—	Z	H	Watch dog output
62	Vss	←	—	—	—	—	—	—	GND
63	Vcc	←	—	—	—	—	—	—	+5V
64	P20/A0/A16	A16	O	C	—	—	Z	L	EPROM address out A16
65	P21/A1/A17		O	C	—	—	Z	L	
66	P22/A2/A18	ADIRCE	O	C	—	—	Z	L	DIR control terminal (LC89055Q) control chip enable output
67	P23/A3/A19	DIR MOSI	O	C	—	—	Z	L	DIR control terminal (LC89055Q) control data output
68	P24/A4/A20		O	C	—	—	Z	L	
69	P25/A5/A21	SW-SUM	O	C	Ed	—	L	L	
70	P26/A6/A22	DAC-RESET	O	C	Ed	—	L	L	DAC control terminal (L: Power down mode, ↑ (rising edge) Reset)
71	P27/A7/A23	SEL CK	O	C	Ed	—	Z	L	ADC/DIR data clock switching control terminal (L: ADC)
72	P30/_RD	_RD	O	C	Ed	—	Z	L	Flash memory control terminal
73	P31/_WR	_WR	O	C	Ed	—	Z	L	Flash memory control terminal
74	P32/_HWR	CSI	I	—	Ed	Lv	—	—	DIR control input terminal (L: PCM)
75	P33/_WAIT	ERR MUTE_	O	C	Ed	—	L	L	Pop noise preventive mute control output (L: Mute)
76	P34/_BUSRQ	_DSP REQUEST	O	C	Ed	—	Z	L	(ADSP21061L-A:IRQ1_) host I/F interrupt request output (L: REQ)
77	P35/_BUSRQ	DIG.(AC39 MUTE	O	C	Ed	—	Z	L	Digital mute control output (L: AC-3 or DTS decode enable)
78	P36/_R/W	WRITE	O	C	—	—	Z	L	DSP comm. control terminal (H: Data write)
79	P37/_RAS	DIR RESET	O	C	—	—	Z	L	DIR control output (LC89055Q) (L: Reset)
80	P40/\CS0/_CAS0		O	C	—	—	Z	L	
81	P41/_CS1/_CAS1		O	C	—	—	Z	L	
82	P42/_CS2/_CAS2	_CS0	O	C	—	—	Z	L	Flash memory control terminal
83	P60/PG00	I/01	I/O	C	—	—	Z	L	DSP comm. terminal (ADSP21061L: D16)
84	P61/PG01	I/02	I/O	C	—	—	Z	L	DSP comm. terminal (ADSP21061L: D17)
85	P62/PG02	I/03	I/O	C	—	—	Z	L	DSP comm. terminal (ADSP21061L: D18)
86	P63/PG03	I/04	I/O	C	—	—	Z	L	DSP comm. terminal (ADSP21061L: D19)
87	P64/PG10	I/05	I/O	C	—	—	Z	L	DSP comm. terminal (ADSP21061L: D20)
88	P65/PG11	I/06	I/O	C	—	—	Z	L	DSP comm. terminal (ADSP21061L: D21)
89	P66/PG12	I/07	I/O	C	—	—	Z	L	DSP comm. terminal (ADSP21061L: D22)
90	P67/PG13	I/08	I/O	C	—	—	Z	L	DSP comm. terminal (ADSP21061L: D23)
91	Vss	←	—	—	—	—	—	—	GND
92	P50/AN0	AUDIO LEVEL	I	—	Eu	Lv	Z	—	Signal level detect, set to A/D input
93	P51/AN1	POSI (FAN)	I	—	Eu	Lv	Z	—	Temperature detect, set to A/D input
94	P52/AN2	EMP	I	—	—	Lv	—	—	H: EMP on
95	P53/AN3	96K DET	I	—	—	Lv	—	—	96k signal detect input, H: 96k
96	P54/AN4	BUSY1	I	—	—	Lv	—	—	(ADSP21061L-A:FLAG2A)
97	P55/AN5	FLAG 3A	I	—	—	Lv	—	—	(ADSP21061L-A:FLAG3A)
98	P56/AN6		I	—	—	Lv	—	—	
99	P57/AN7		I	—	—	Lv	—	—	
100	V REFH	←	—	—	—	—	—	—	AD ref. +5V

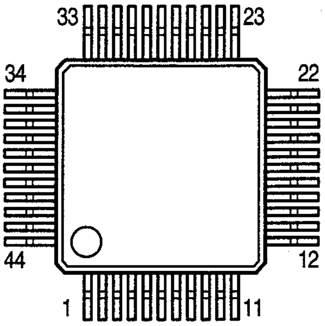
ADSP-21061L (AU: IC401)



ADSP-21061L Terminal Function

Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name
1	TDI	41	ADDR20	81	TCLK0	121	DATA41	161	DATA14	201	NC
2	TRST	42	ADDR21	82	TFS0	122	DATA40	162	DATA13	202	NC
3	VDD	43	GND	83	DR0	123	DATA39	163	DATA12	203	NC
4	TDO	44	ADDR22	84	RCLK0	124	VDD	164	GND	204	NC
5	TIMEXP	45	ADDR23	85	RFS0	125	DATA38	165	DATA11	205	VDD
6	EMU	46	ADDR24	86	VDD	126	DATA37	166	DATA10	206	NC
7	ICSA	47	VDD	87	VDD	127	DATA36	167	DATA9	207	NC
8	FLAG3	48	GND	88	GND	128	GND	168	VDD	208	NC
9	FLAG2	49	VDD	89	ADRCLK	129	NC	169	DATA8	209	NC
10	FLAG1	50	ADDR25	90	REDY	130	DATA35	170	DATA7	210	NC
11	FLAG0	51	ADDR26	91	HBG	131	DATA34	171	DATA6	211	NC
12	GND	52	ADDR27	92	CS	132	DATA33	172	GND	212	GND
13	ADDR0	53	EGND	93	RD	133	VDD	173	DATA5	213	NC
14	ADDR1	54	MS3	94	WR	134	VDD	174	DATA4	214	NC
15	VDD	55	MS2	95	GND	135	GND	175	DATA3	215	NC
16	ADDR2	56	MS1	96	VDD	136	DATA32	176	VDD	216	NC
17	ADDR3	57	MS0	97	GND	137	DATA31	177	DATA2	217	NC
18	ADDR4	58	SW	98	CLKIN	138	DATA30	178	DATA1	218	NC
19	GND	59	BMS	99	ACK	139	GND	179	DATA0	219	VDD
20	ADDR5	60	ADDR28	100	DMAG2	140	DATA29	180	GND	220	GND
21	ADDR6	61	GND	101	DMAG1	141	DATA28	181	GND	221	VDD
22	ADDR7	62	VDD	102	PAGE	142	DATA27	182	NC	222	NC
23	VDD	63	VDD	103	VDD	143	VDD	183	NC	223	NC
24	ADDR8	64	ADDR29	104	BR6	144	VDD	184	NC	224	NC
25	ADDR9	65	ADDR30	105	BR5	145	DATA26	185	NC	225	NC
26	ADDR10	66	ADDR31	106	BR4	146	DATA25	186	NC	226	NC
27	GND	67	GND	107	BR3	147	DATA24	187	NC	227	NC
28	ADDR11	68	SBTS	108	BR2	148	GND	188	VDD	228	GND
29	ADDR12	69	DMAR2	109	BR1	149	DATA23	189	NC	229	ID2
30	ADDR13	70	DMAR1	110	GND	150	DATA22	190	NC	230	ID1
31	VDD	71	HBR	111	VDD	151	DATA21	191	NC	231	ID0
32	ADDR14	72	DT1	112	GND	152	VDD	192	NC	232	LBOOT
33	ADDR15	73	TCLK1	113	DATA47	153	DATA20	193	NC	233	RPBA
34	GND	74	TFS1	114	DATA46	154	DATA19	194	NC	234	RESET
35	ADDR16	75	DR1	115	DATA45	155	DATA18	195	GND	235	EBOOT
36	ADDR17	76	RCLK1	116	VDD	156	GND	196	GND	236	IRQ2
37	ADDR18	77	RFS1	117	DATA44	157	DATA17	197	VDD	237	IRQ1
38	VDD	78	GND	118	DATA43	158	DATA16	198	NC	238	IRQ0
39	VDD	79	CPA	119	DATA42	159	DATA15	199	NC	239	TCK
40	ADDR19	80	DT0	120	GND	160	VDD	200	NC	240	TMS

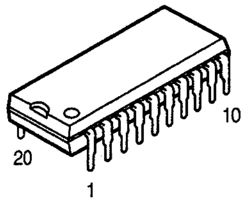
MSM32R0050-521GS
(AU:IC402)

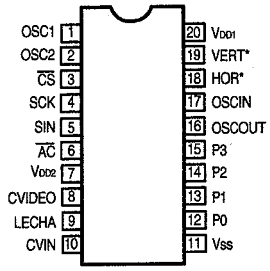


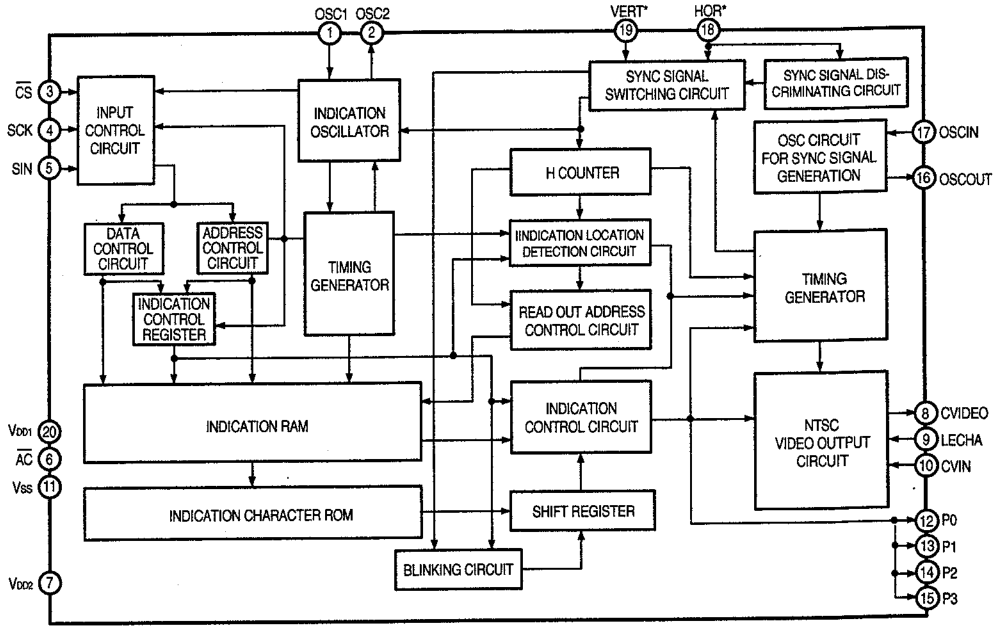
MSM32R0050-521GS Terminal Function

Pin No.	Name	Symbol	Function	Pin No.	Name	Symbol	Function
1	Vcc	Vcc		23	GND	I/O	
2	RFS0	I/O	RFS for DSP (64fs)	24	N.C.	I/O	
3	GND	GND		25	N.C.	I/O	
4	RFS1	I/O	RFS for DSP (256fs)	26	Vcc	Vcc	
5	GND	I/O		27	N.C.	I/O	
6	RFS1A	I/O	Same as RFS1	28	GND	GND	
7	GND	I/O		29	N.C.	I/O	
8	DATA2	I/O	Output data from DSP	30	N.C.	I/O	
9	GND	I/O		31	N.C.	I/O	
10	DATA3	I/O	Data for L/R DAC	32	N.C.	I/O	
11	GND	I/O		33	MCK0	I/O	MCK for RFS1 generation
12	DATA4	I/O	Data for C/SW DAC	34	GND	GND	
13	GND	I/O		35	LRCK0	I/O	LRCK for RFS0 generation
14	DATA5	I/O	Data for SL/SR DAC	36	GND	I/O	
15	GND	I/O		37	BCK0	I/O	BCK for RFS0 generation
16	DATA6	I/O	Data for reserve DAC	38	GND	I/O	
17	GND	I/O		39	GND	I/O	
18	LRCK1	I/O	LRCK for all DAC	40	Vcc	Vcc	
19	Vcc			41	/SRESET	RESET	System reset (L: Reset)
20	BCK1	I/O	BCK for all DAC	42	/CRESET	I/O	Clock reset (L: Reset)
21	GND	I/O		43	GND	I/O	
22	MCK1	I/O	MCK for all DAC	44	/D_MUTE	I/O	DAC mute (L: Mute)

M35015-204SP (VI: IC308)



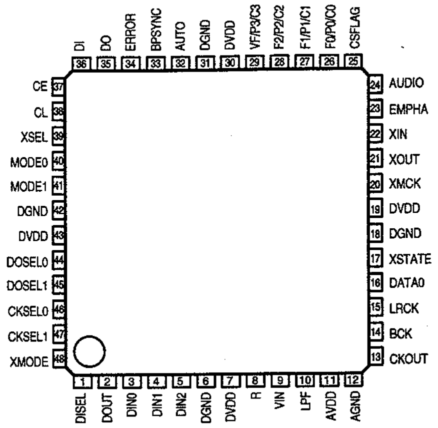

OSC1 1
OSC2 2
CS 3
SCK 4
SIN 5
AC 6
VDD2 7
CVIDEO 8
LECHA 9
CVIN 10
20 VDD1
19 VERT*
18 HOR*
17 OSCIN
16 OSCOUT
15 P3
14 P2
13 P1
12 P0
11 Vss


OSC1
OSC2
VERT*
HOR*
CS 3
SCK 4
SIN 5
VDD1 20
AC 6
Vss 11
VDD2 7
INPUT CONTROL CIRCUIT
INDICATION OSCILLATOR
SYNC SIGNAL SWITCHING CIRCUIT
SYNC SIGNAL DIS-CRIMINATING CIRCUIT
OSC CIRCUIT FOR SYNC SIGNAL GENERATION
17 OSCIN
16 OSCOUT
H COUNTER
DATA CONTROL CIRCUIT
ADDRESS CONTROL CIRCUIT
TIMING GENERATOR
IINDICATION LOCATION DETECTION CIRCUIT
INDICATION CONTROL REGISTER
READ OUT ADDRESS CONTROL CIRCUIT
TIMING GENERATOR
INDICATION RAM
INDICATION CONTROL CIRCUIT
NTSC VIDEO OUTPUT CIRCUIT
8 CVIDEO
9 LECHA
10 CVIN
INDICATION CHARACTER ROM
SHIFT REGISTER
12 P0
13 P1
14 P2
15 P3
BLINKING CIRCUIT

M35015-204SP Terminal Function

Pin No.	Symbol	Name	I/O	Function
1	OSC1	Osc. circuit ext. terminal.	I	External terminal for indication oscillator circuit. Standard OSC. freq. is approx. 7MHz. With this OSC. freq., decides horizontal indicatin and character width.
2	OSC2		O	
3	CS	Chip select input	I	Chip select terminal and turns to "L" when transfer serial data. Hysteresis input. Pull up resistor is built-in.
4	SCK	Serial clock input	I	Takes in serial data of SIN at SCK rise when CS terminal is in "L". Hysteresis input. Pull up rersist is built-in.
5	SIN	Serial data input	I	Serial input of register for indication control and data, and address for indication data memory. Hysteresis input. Pull up rersistor is built-in.
6	AC	Auto-clear input	I	Resets internal circuit of IC at "L" mode. Hysteresi input. Pull up resistor is built-in.
7	VDD2	Power supply	—	Power supply terminal of analog system. Connect to +5V.
8	CVIDEO	Combined video output	O	Output terminal of combined video signal. Outputs 2Vp-p combined signal. Character output, etc. Overlap CVIN signal and outputs at superimpose.
9	LECHA	Character level input	I	Input terminal deciding character output level in combined video signal. color of character is white.
10	CVIN	Combined video input	I	Input terminal of external combined video signal. Character output etc. overlap this external combined video signal.
11	Vss	Ground	—	Ground terminal. Connect to GND.
12	P0	Output port p0	O	General output or character background signal BL NK1* output is switchable. Polarity can be selected at ROM mask.
13	P1	Output port P1	O	General output or character background signal CO1* output is switchable. Polarity can be selected at ROM mask.
14	P2	Output port P2	O	General output or character background signal BLNK2* output is switchable. Polarity can be selected at ROM mask.
15	P3	Output port P3	O	General output or character background signal CO2* output is switchable. Polarity can be selected at ROM mask.
16	OSCOUT	Ext. terminal for sync sig. OSC. Circuit	O	Terminal for external use of sync signal OSC. circuit. Use the freq.: 14.32MHz at NTSC system, 17.73MHz at PAL. system, 14.30MHz at MPAL system.
17	OSCIN		I	
18	HOR*	Horizontal sync signal	I	Inputs horizontal sync signal. Hysteresis input.
19	VERT*	Vertical sync signal	—	Input vertical sync signal. Hysteresis input. Polarity can be selected at ROM mask.
20	VDD1	Power supply	I	Power supply terminal of digital system. Connect to +5V.

LC89055W (AU: IC531)

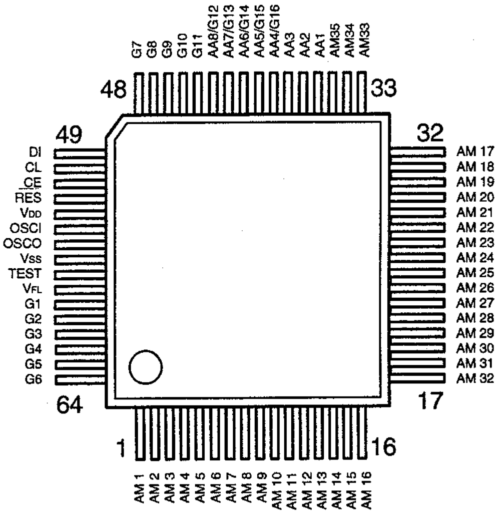

DI 36
DO 35
ERROR 34
BPSYNC 33
AUTO 32
DGND 31
DVDD 30
VF/P3/C3 29
F2/P2/C2 28
F1/P1/C1 27
F0/P0/C0 26
CSFLAG 25
CE 37
CL 38
XSEL 39
MODE0 40
MODE1 41
DGND 42
DVDD 43
DOSEL0 44
DOSEL1 45
CKSEL0 46
CKSEL1 47
XMODE 48
AUDIO 24
EMPHA 23
XIN 22
XOUT 21
XMCK 20
DVDD 19
DGND 18
XSTATE 17
DATA0 16
LRCK 15
BCK 14
CKOUT 13
1 DISEL
2 DOUT
3 DIN0
4 DIN1
5 DIN2
6 DGND
7 DVDD
8 R
9 VIN
10 LPF
11 AVDD
12 AGND

LC89055W Terminal Function

Pin No.	Pin Name	I/O	Function
1	DISEL	I	Data input terminal (select input pin of DIN0, DIN1)
2	DOUT	O	Input bi-phase data through output terminal
3	DIN0	I	Amp built-in coaxial/optical input correspond data input terminal
4	DIN1	I	Amp built-in coaxial/optical input correspond data input terminal
5	DIN2	I	Optical input correspond data input terminal
6	DGND		Digital GND
7	DVDD		Digital power supply
8	R	I	VCO gain control input terminal
9	VIN	I	VCO free-run frequency setting input terminal
10	LPF	O	PLL loop filter setting terminal
11	AVDD		Analog power supply
12	AGND		Analog GND
13	CKOUT	O	Clock output terminal (256fs, 384fs, 512fs, X’tal osc., VCO free-run osc.)
14	BCK	O	64fs clock output terminal
15	LRCK	O	fs clock output terminal (L: Rch, H: Lch, I2S: Reverse)
16	DATAO	O	Data output terminal
17	XSTATE	O	Input data detecting result output terminal
18	DGND		Digital GND
19	DVDD		Digital power supply
20	XMCK	O	X’tal osc. clock output terminal (24.576MHz or 12.288MHz)
21	XOUT	O	X’tal osc. connection output terminal
22	XIN	I	X’tal osc. connection output terminal
23	EMPHA	O	Emphasis information output terminal of channel status
24	AUDIO	O	Bit1 output terminal of channel status
25	CSFLAG	O	Top 40bit revise flag output terminal of channel status
26	F0/P0/C0	O	Input fs cal. sig. out / data type out / input word inf. output terminal
27	F1/P1/C1	O	Input fs cal. sig. out / data type out / input word inf. output terminal
28	F2/P2/C2	O	Input fs cal. sig. out / data type out / input word inf. output terminal
29	VF/P3/C3	O	Validity flag out / data type out / input word inf. output terminal
30	DVDD		Digital power supply
31	DGND		Digital GND
32	AUTO	O	Non PCM burst data transfer detect sig. output terminal
33	BPSYNC	O	Non PCM burst data preamble Pa, Pb, Pc, Pd sync sig. output terminal
34	ERROR	O	PLL lock error, data error flag output terminal
35	DO	O	CPU I/F read data output terminal
36	DI	I	CPU I/F write data input terminal
37	CE	I	CPU I/F chip enable input terminal
38	CL	I	CPU I/F clock input terminal
39	XSEL	I	Frequency select input pin of XIN X’tal osc. (24.576MHz or 12.288MHz)
40	MODE0	I	Mode setting input terminal
41	MODE1	I	Mode setting input terminal
42	DGND		Digital GND
43	DVDD		Digital power supply
44	DOSEL0	I	Data output format select input terminal
45	DOSEL1	I	Data output format select input terminal
46	CKSEL0	I	Output clock select input terminal
47	CKSEL1	I	Output clock select input terminal
48	XMODE	I	Reset input terminal

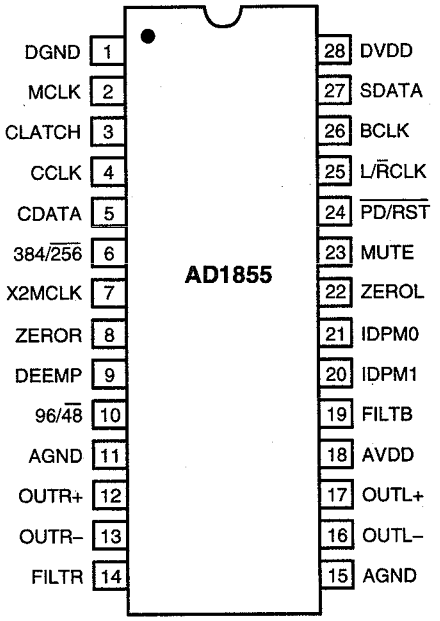
* For latch-up countermeasure, set digital (DVDD) and analog (AVDD) power on/off in the same timing.

LC75721NE (EX: IC101)


G7
G8
G9
G10
G11
AA8/G12
AA7/G13
AA6/G14
AA5/G15
AA4/G16
AA3
AA2
AA1
AM35
AM34
AM33
48
33
49
32
DI
CL
CE
RES
VDD
OSCI
OSCO
Vss
TEST
VFL
G1
G2
G3
G4
G5
G6
AM 17
AM 18
AM 19
AM 20
AM 21
AM 22
AM 23
AM 24
AM 25
AM 26
AM 27
AM 28
AM 29
AM 30
AM 31
AM 32
64
17
1
16
AM 1
AM 2
AM 3
AM 4
AM 5
AM 6
AM 7
AM 8
AM 9
AM 10
AM 11
AM 12
AM 13
AM 14
AM 15
AM 16

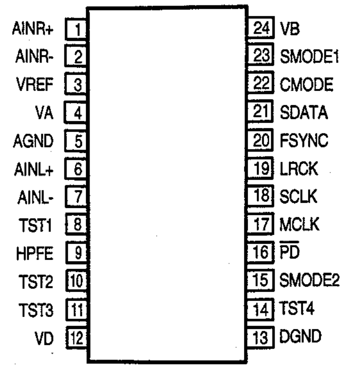
Symbol	Function
V_{DD}	Power terminal +5V
Vss	Power terminal GND
V_{FL}	Power terminal FL drive
DI CL CE	Serial data transfer terminal DI: Data CL: Clock CE: Chip enable
OSCI OSCO	External CR connecting terminal
$\overline{\text{RES}}$	System reset terminal
AM1~AM35 AA1~AA3	Anode output terminal
AA4/G16 AA5/G15 AA6/G14 AA7/G13 AA8/G12	Anode/Grid output terminal
G1~G11	Grid output terminal
TEST	LSI test terminal

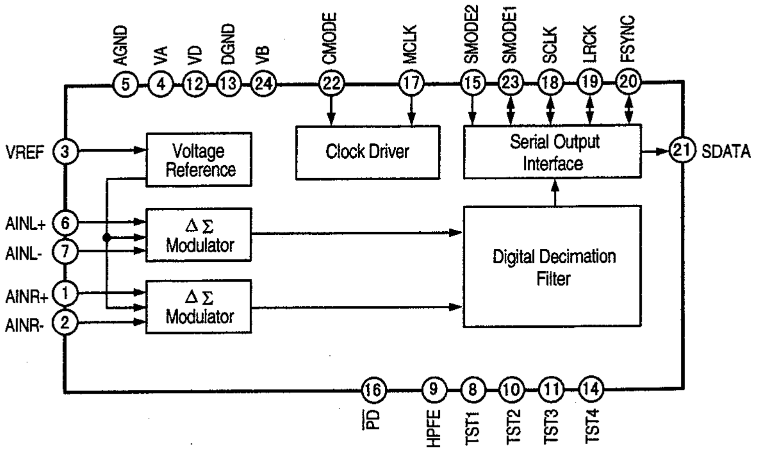
AD1855 (AU: IC701, 702, 703)


DGND 1
MCLK 2
CLATCH 3
CCLK 4
CDATA 5
384/256 6
X2MCLK 7
ZEROR 8
DEEMP 9
96/48 10
AGND 11
OUTR+ 12
OUTR– 13
FILTR 14
AD1855
28 DVDD
27 SDATA
26 BCLK
25 L/RCLK
24 PD/RST
23 MUTE
22 ZEROL
21 IDPM0
20 IDPM1
19 FILTB
18 AVDD
17 OUTL+
16 OUTL–
15 AGND

Pin No.	Name	I/O	Description
1	DGND	I	Digital Ground.
2	MCLK	I	Master Clock Input.
3	CLATCH	I	Latch input for control data.
4	CCLK	I	Control clock input for control data.
5	CDATA	I	Serial control input.
6	384/$\overline{256}$	I	Selects the master clock mode.
7	X2MCLK	I	Selects internal clock doubler (LO) or internal clock=MCLK (HI).
8	ZEROR	O	Right Channel Zero Flag Output.
9	DEEMP	I	De-Emphasis.
10	96/$\overline{48}$	I	Selects 48 kHz (LO) or 96 kHz Sample Frequency Control.
11,15	AGND	I	Analog Ground.
12	OUTR+	O	Right Channel Positive line level analog output.
13	OUTR–	O	Right Channel Negative line level analog output.
14	FILTR	O	Voltage Reference Filter Capacitor Connection.
16	OUTL–	O	Left Channel Negative line level analog output.
17	OUTL+	O	Left Channel Positive line level analog output.
18	AVDD	I	Analog Power supply.
19	FILTB	O	Filter Capacitor connection.
20	IDPM1	I	Input serial data port mode control one.
21	IDPM0	I	Input serial data port mode control zero.
22	ZEROL	O	Left Channel Zero Flag output.
23	MUTE	I	Mute. Assert HI to mute both stereo analog outputs.
24	$\overline{\text{PD/RST}}$	I	$\overline{\text{Power-Down/Reset}}$.
25	L/$\overline{\text{R}}$CLK	I	Left/$\overline{\text{Right}}$ clock input for input data.
26	BCLK	I	Bit clock input for input data.
27	SDATA	I	Serial input.
28	DVDD	I	Digital Power Supply.

AK5351 (AU: IC527)

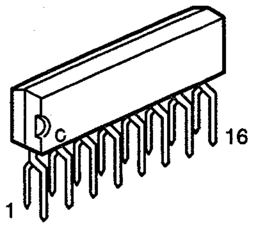

AINR+ 1
AINR- 2
VREF 3
VA 4
AGND 5
AINL+ 6
AINL- 7
TST1 8
HPFE 9
TST2 10
TST3 11
VD 12
24 VB
23 SMODE1
22 CMODE
21 SDATA
20 FSYNC
19 LRCK
18 SCLK
17 MCLK
16 PD
15 SMODE2
14 TST4
13 DGND

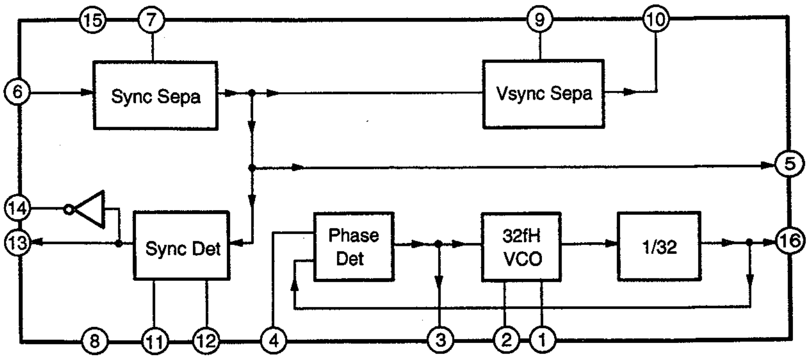

AGND 5
VA 4
VD 12
DGND 13
VB 24
CMODE 22
MCLK 17
SMODE2 15
SMODE1 23
SCLK 18
LRCK 19
FSYNC 20
VREF 3
Voltage Reference
Clock Driver
Serial Output Interface
21 SDATA
AINL+ 6
AINL- 7
ΔΣ Modulator
AINR+ 1
AINR- 2
ΔΣ Modulator
Digital Decimation Filter
16 PD
9 HPFE
8 TST1
10 TST2
11 TST3
14 TST4

AK5351 Terminal Function

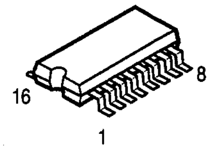
Pin No.	Symbol	I/O	Function
1	AINR+	I	Rch analog non-inverted input pin.
2	AINR–	I	Rch analog inverted input pin
3	VREF	O	Vref. output pin (VA-2.6V)
4	VA	—	Analog part power supply pin (+5V)
5	AGND	—	Analog ground pin
6	AINL+	I	Lch analog non-inverted input pin
7	AINL–	I	Lch analog inverted input pin
8	TST1		Test pin
9	HPFE	I	Hi-pass filter enable pin, "H": ON, "L": OFF
10	TST2		Test pin
11	TST3		Test pin
12	VD	—	Digital part power supply pin (+5V)
13	DGND	—	Digital ground pin
14	TST4		Test pin
15	SMODE2	I	Interface clock select pin
16	PD	I	Power down pin, "L": power down mode
17	MCLK	I	Master clock input pin, CMODE="H": 384fs, "L": 256fs
18	SCLK	I/O	Serial data clock pin
19	LRCK	I/O	Input channel select pin
20	FSYNC	I/O	Frame sync clock pin
21	SDATA	O	Serial data output pin
22	CMODE	I	Master clock select pin, "H": MCLK=384fs, "L": 256fs
23	SMODE1	I	Interface clock select pin
24	VB	—	Bulk power supply pin (+5V)

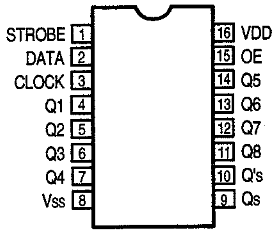
NJM2229S (VI: IC305)




15
7
9
10
6
Sync Sepa
Vsync Sepa
5
14
13
Sync Det
Phase Det
32fH VCO
1/32
16
8
11
12
4
3
2
1

TC4094BF (CO: IC304, EX: IC103)




STROBE 1
DATA 2
CLOCK 3
Q1 4
Q2 5
Q3 6
Q4 7
Vss 8
16 VDD
15 OE
14 Q5
13 Q6
12 Q7
11 Q8
10 Q's
9 Qs

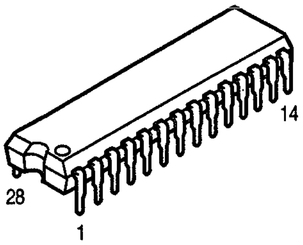
CO: IC304

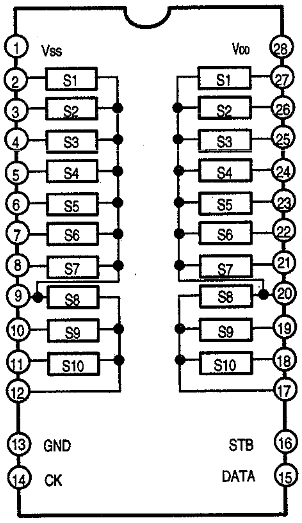
Port	Symbol	Function
Q1	A	Video input switching
Q2	B	Video input switching
Q3	C	Video input switching
Q4	D	Video output switching
Q5	E	Video output switching
Q6	F	Video output switching (DVD/TV)
Q7	G	Video output switching (DVD/TV)
Q8	Not Used	

EX: IC103

Port	Symbol	Function
Q1	LOCK LED.	"LOCK" LED drive output (H: Lock)
Q2	DOLBY DIGITAL LED	"DOLBY DIGITAL" LED drive output (H: D.Digital)
Q3	dts LED	"dts" LED drive output (H: dts)
Q4	AUTO LED	"AUTO" LED drive output (H: input mode "AUTO")
Q5	DTS LED	"DTS" LED drive output (H: input mode "DTS")
Q6	PCM LED	"PCM" LED drive output (H: input mode "PCM")
Q7	SURROUND SP-A LED	"SURROUND SPEAKER A" LED drive output
Q8	SURROUND SP-B LED	"SURROUND SPEAKER B" LED drive output

TC9273N-004 (AU: IC108)

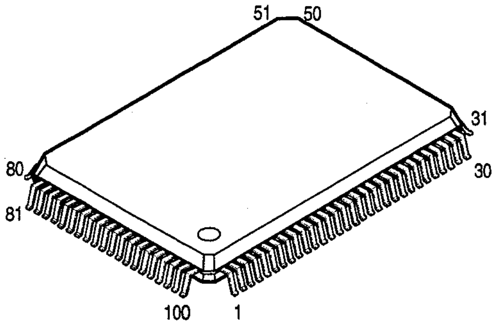


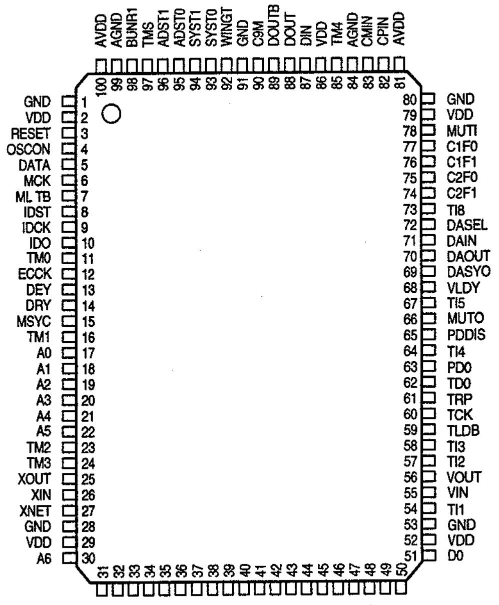

Vss
VDD
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
GND
CK
STB
DATA

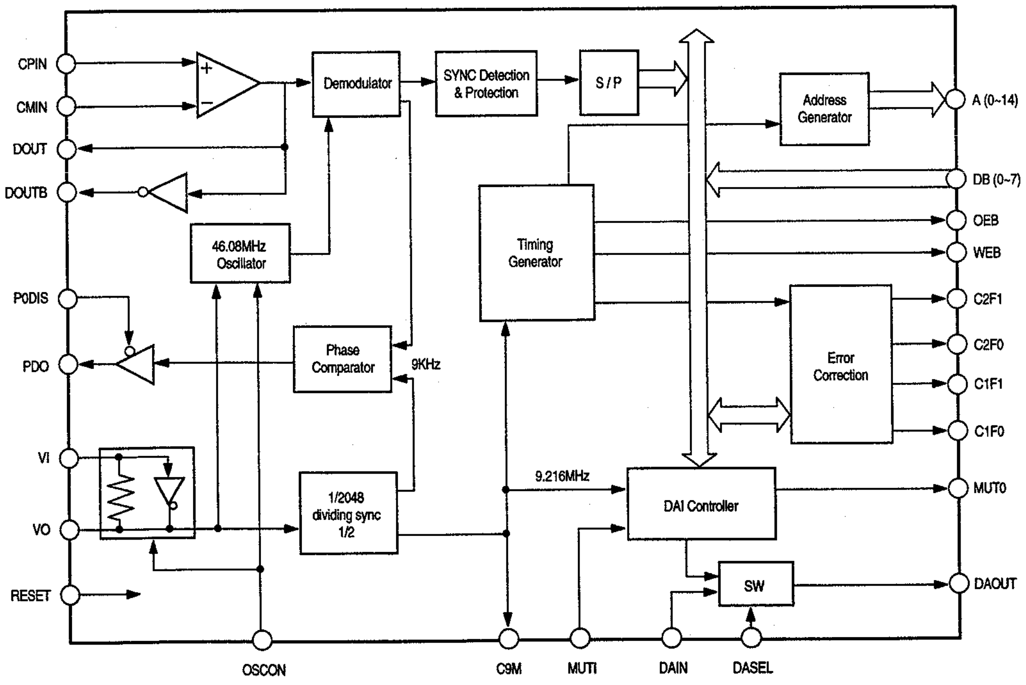
TC9273N Terminal Function

Pin No.	Symbol	Name	Function	Note
1	Vss	–Power Terminal	Dual Power Use: VDD = 8.0~17 V Single Power Use: VDD = 8.0~18V	—
13	GND	Digital Ground	GND = 0V Vss = GND = 0V	
28	VDD	+Power Terminal	Vss = –8.0~17V	
2~12 17~27	S1~11	I/O Terminal	Input terminal of analog switch.	—
14	CK	Clock Input	Clock input for data transfer.	Low level Border Input Terminal
15	DATA	Data Input	Serial input for switch setting.	
16	STB	Strobe Input	Strobe input for data writing.	

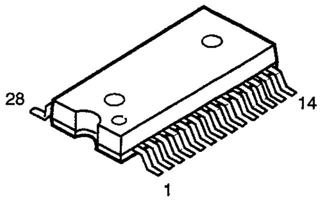
Asia model only
PM4007A (AU: IC512)

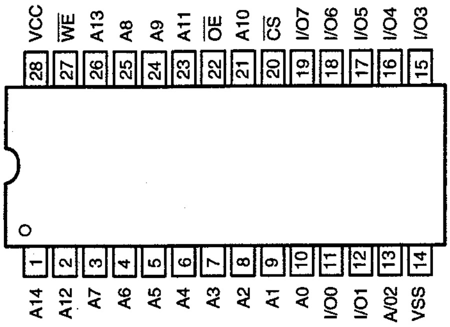

51
50
31
30
80
81
100
1

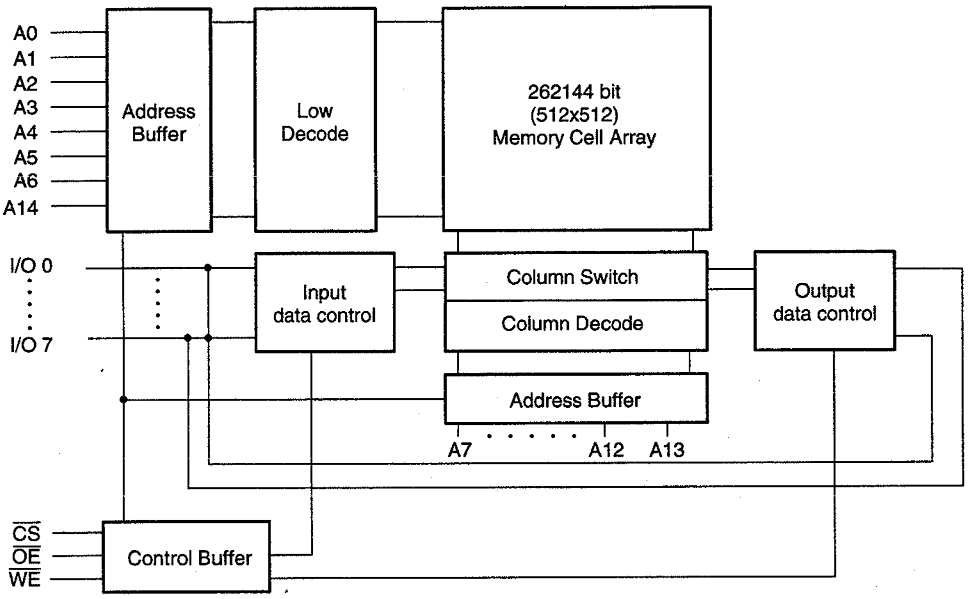

1 GND
2 VDD
3 RESET
4 OSCON
5 DATA
6 MCK
7 ML TB
8 IDST
9 IDCK
10 IDO
11 TM0
12 ECCK
13 DEY
14 DRY
15 MSYC
16 TM1
17 A0
18 A1
19 A2
20 A3
21 A4
22 A5
23 TM2
24 TM3
25 XOUT
26 XIN
27 XNET
28 GND
29 VDD
30 A6
31 A7
32 GND
33 VDD
34 A12
35 A14
36 WEB
37 A13
38 A8
39 A9
40 GND
41 A11
42 OEB
43 A10
44 D7
45 D6
46 D5
47 D4
48 D3
49 D2
50 D1
51 D0
52 VDD
53 GND
54 TI1
55 VIN
56 VOUT
57 TI2
58 TI3
59 TLDB
60 TCK
61 TRP
62 TDO
63 PDO
64 TI4
65 PDDIS
66 MUTO
67 TI5
68 VLDY
69 DASYO
70 DAOUT
71 DAIN
72 DASEL
73 TI8
74 C2F1
75 C2F0
76 C1F1
77 C1F0
78 MUTI
79 VDD
80 GND
81 AVDD
82 CPIN
83 CMIN
84 AGND
85 TM4
86 VDD
87 DIN
88 DOUT
89 DOUTB
90 C9M
91 GND
92 WINGT
93 SYST0
94 SYST1
95 ADST0
96 ADST1
97 TMS
98 BUNR1
99 AGND
100 AVDD


CPIN
CMIN
DOUT
DOUTB
PODIS
PDO
VI
VO
RESET
OSCON
C9M
MUTI
DAIN
DASEL
+
−
Demodulator
SYNC Detection & Protection
S / P
Address Generator
A (0~14)
DB (0~7)
OEB
WEB
C2F1
C2F0
C1F1
C1F0
MUTO
DAOUT
46.08MHz Oscillator
Timing Generator
Phase Comparator
9KHz
Error Correction
1/2048 dividing sync 1/2
9.216MHz
DAI Controller
SW

Asia model only
BR62256F-70LL (AU: IC516)



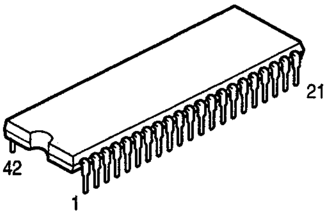

VCC
$\overline{WE}$
A13
A8
A9
A11
$\overline{OE}$
A10
$\overline{CS}$
I/O7
I/O6
I/O5
I/O4
I/O3
28
27
26
25
24
23
22
21
20
19
18
17
16
15
1
2
3
4
5
6
7
8
9
10
11
12
13
14
A14
A12
A7
A6
A5
A4
A3
A2
A1
A0
I/O0
I/O1
A/02
VSS

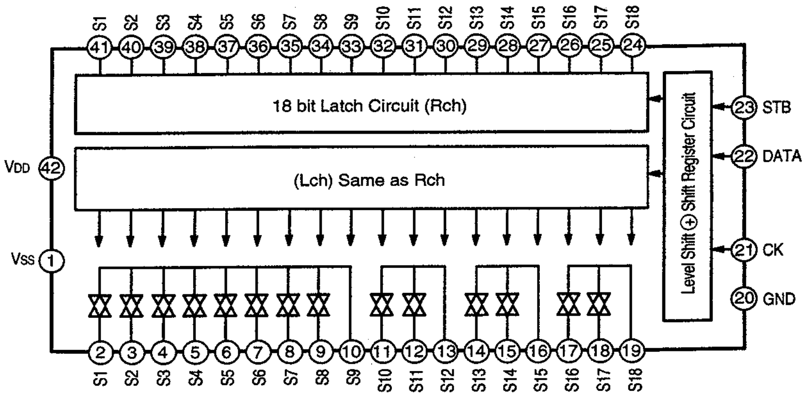

A0
A1
A2
A3
A4
A5
A6
A14
Address Buffer
Low Decode
262144 bit (512x512) Memory Cell Array
I/O 0
I/O 7
Input data control
Column Switch
Column Decode
Output data control
Address Buffer
A7
A12
A13
$\overline{CS}$
$\overline{OE}$
WE
Control Buffer

BR62256F-70LL Terminal Function

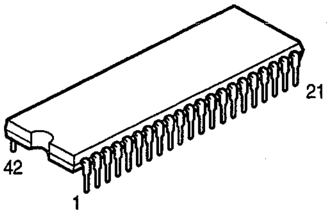
Pin No.	Symbol	I/O	Function
1~10	A0~A9	I	32K byte memory address input.
11~13,	I/00~I/02	I/O	8 bit data input/output.
14	Vss	—	GND
15~19	I/03~I/07	I/O	8 bit data input/output.
20	$\overline{CS}$	I	Chip select control input.
21	A10	I	32K byte memory address input.
22	$\overline{OE}$	I	Output enable control input.
23~26	A11~A14	I	32K byte memory address input.
27	$\overline{WE}$	I	Write enable control input.
28	Vcc	—	+5V power supply.

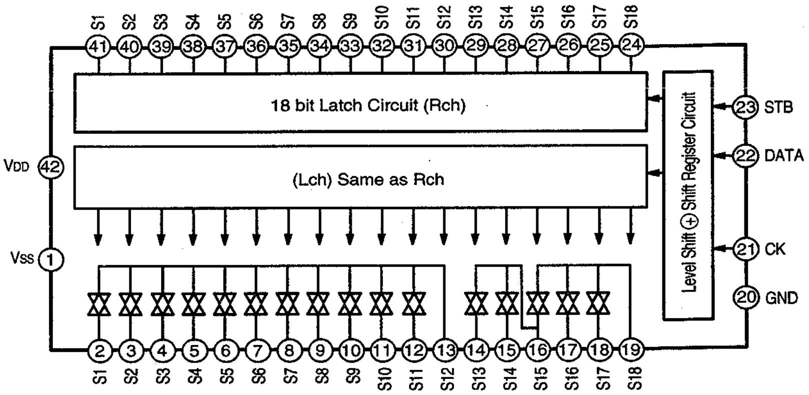
TC9274N-012 (EX: IC312)



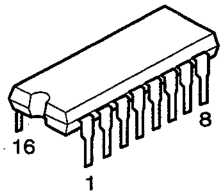

S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18
41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24
18 bit Latch Circuit (Rch)
(Lch) Same as Rch
Level Shift ⊕ Shift Register Circuit
23 STB
22 DATA
21 CK
20 GND
VDD 42
Vss 1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18

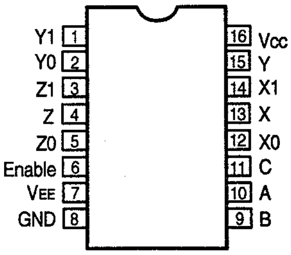
TC9274N-011 (AU: IC107)




S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18
41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24
18 bit Latch Circuit (Rch)
(Lch) Same as Rch
Level Shift ⊕ Shift Register Circuit
23 STB
22 DATA
21 CK
20 GND
VDD 42
Vss 1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18

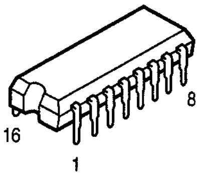
MC74HC4053N (VI: IC304)

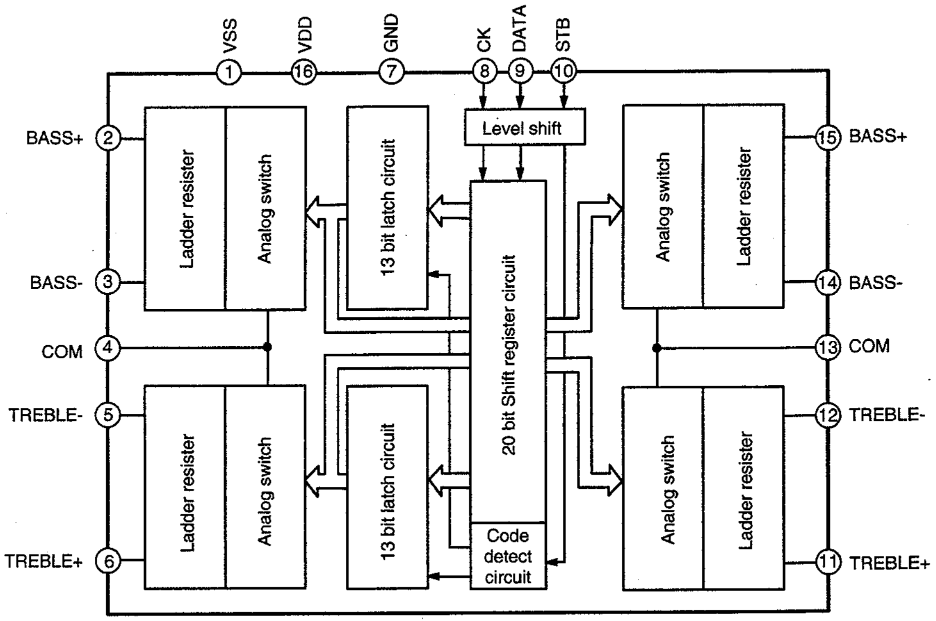



Y1 1
Y0 2
Z1 3
Z 4
Z0 5
Enable 6
VEE 7
GND 8
16 Vcc
15 Y
14 X1
13 X
12 X0
11 C
10 A
9 B

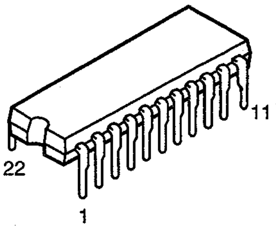
Control Inputs				ON Switches		
	Select					
Enable	C	B	A			
L	L	L	L	Z0	Y0	X0
L	L	L	H	Z0	Y0	X1
L	L	H	L	Z0	Y1	X0
L	L	H	H	Z0	Y1	X1
L	H	L	L	Z1	Y0	X0
L	H	L	H	Z1	Y0	X1
L	H	H	L	Z1	Y1	X0
L	H	H	H	Z1	Y1	X1
H	X	X	X	None		

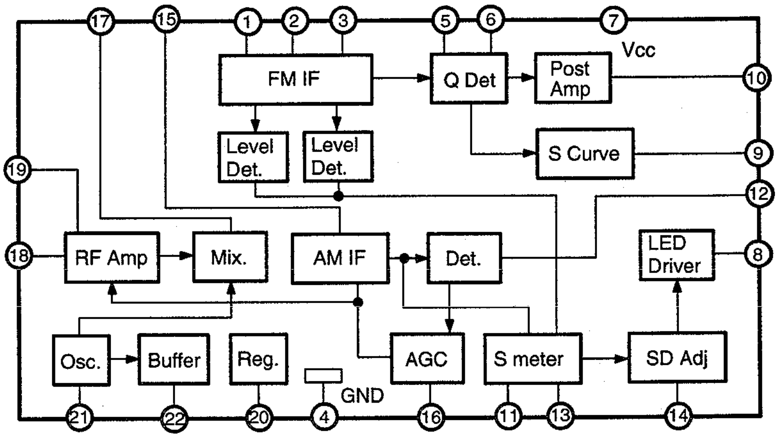
TC9184AP (CO: IC102)



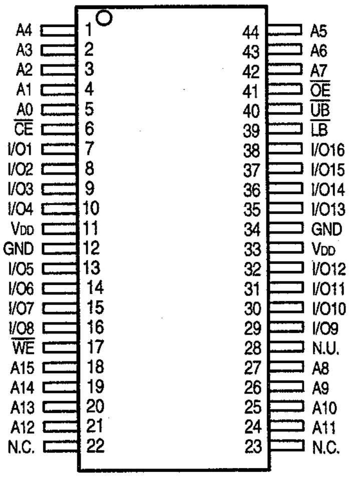

VSS
VDD
GND
CK
DATA
STB
1
16
7
8
9
10
Level shift
BASS+ 2
BASS- 3
COM 4
TREBLE- 5
TREBLE+ 6
Ladder resister
Analog switch
13 bit latch circuit
20 bit Shift register circuit
Code detect circuit
15 BASS+
14 BASS-
13 COM
12 TREBLE-
11 TREBLE+

LA1265 (S)
(RE: IC502)




17
15
1
2
3
5
6
7
Vcc
FM IF
Q Det
Post Amp
10
Level Det.
Level Det.
S Curve
9
12
19
18
RF Amp
Mix.
AM IF
Det.
LED Driver
8
Osc.
Buffer
Reg.
GND
AGC
S meter
SD Adj
21
22
20
4
16
11
13
14

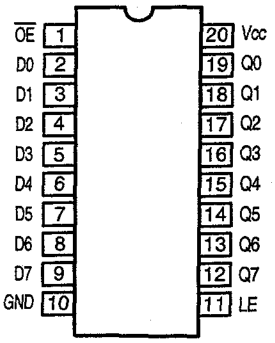
TC55V1664BFT-12 (AU: IC404, 405)

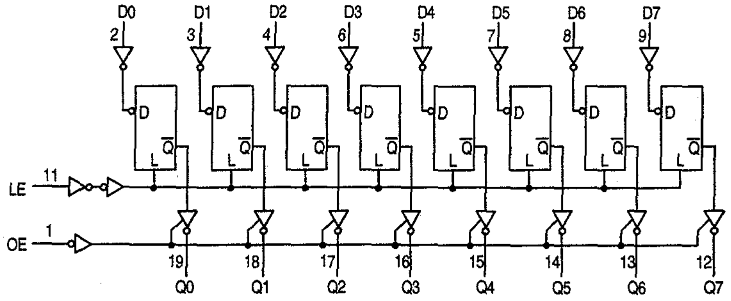

A4 1
A3 2
A2 3
A1 4
A0 5
CE 6
I/O1 7
I/O2 8
I/O3 9
I/O4 10
VDD 11
GND 12
I/O5 13
I/O6 14
I/O7 15
I/O8 16
WE 17
A15 18
A14 19
A13 20
A12 21
N.C. 22
44 A5
43 A6
42 A7
41 OE
40 UB
39 LB
38 I/O16
37 I/O15
36 I/O14
35 I/O13
34 GND
33 VDD
32 I/O12
31 I/O11
30 I/O10
29 I/O9
28 N.U.
27 A8
26 A9
25 A10
24 A11
23 N.C.

Terminal Function

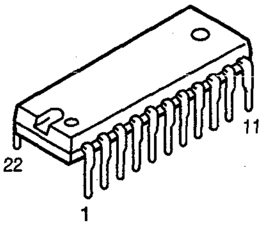
Symbol	Function Name
A0~A15	Address input
I/O1~I/O16	Data in/output
$\overline{\text{CE}}$	Chip enable input
$\overline{\text{WE}}$	Write enable input
$\overline{\text{OE}}$	Output buffer control input
$\overline{\text{LB}}$, $\overline{\text{UB}}$	Data byte control input
VDD	Power terminal (+3.3V)
GND	GND
N.C.	No connection
N.U.	Unusable (input)

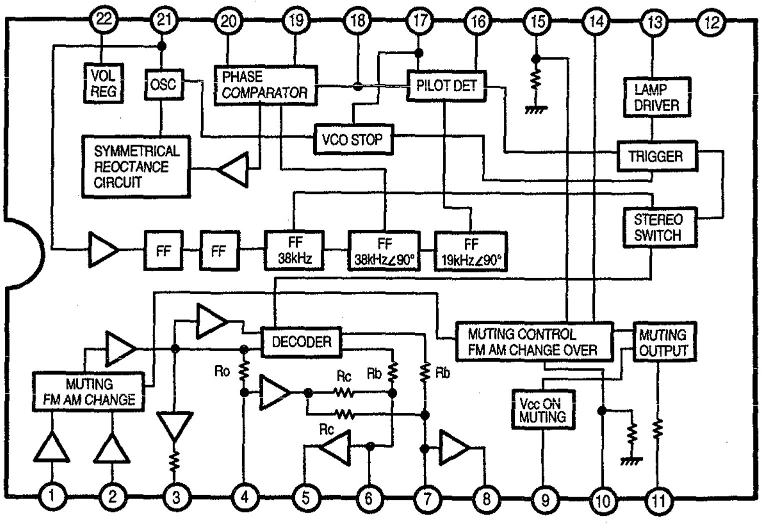
SN74AHCT573PW (AU: IC411)
SN74LV573ANS (AU: IC302, 412)


OE 1
D0 2
D1 3
D2 4
D3 5
D4 6
D5 7
D6 8
D7 9
GND 10
20 Vcc
19 Q0
18 Q1
17 Q2
16 Q3
15 Q4
14 Q5
13 Q6
12 Q7
11 LE

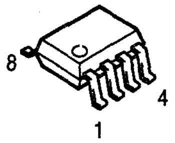

D0 2
D1 3
D2 4
D3 6
D4 5
D5 7
D6 8
D7 9
D
Q
L
LE 11
OE 1
19 Q0
18 Q1
17 Q2
16 Q3
15 Q4
14 Q5
13 Q6
12 Q7

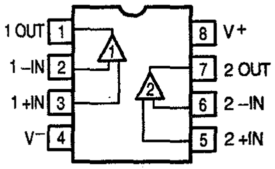
LA3401 (RE: IC503)



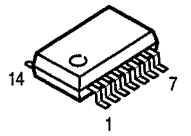

22
21
20
19
18
17
16
15
14
13
12
VOL REG
OSC
PHASE COMPARATOR
PILOT DET
LAMP DRIVER
VCO STOP
SYMMETRICAL REOCTANCE CIRCUIT
TRIGGER
STEREO SWITCH
FF
FF
FF 38kHz
FF 38kHz∠90°
FF 19kHz∠90°
DECODER
MUTING CONTROL FM AM CHANGE OVER
MUTING OUTPUT
MUTING FM AM CHANGE
Ro
Rc
Rb
Rb
Rc
Vcc ON MUTING
1
2
3
4
5
6
7
8
9
10
11

NJM2068MD
(AU: IC106, 109, 112, 731~733)
(CO: IC103, 104, 952)
(EX: IC301, 303, 304, 308, 309, 310, 701, 801~804)
BA4510F (AU: IC651, 652)
NJM2082MD (CO: IC951)

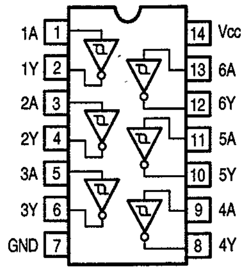



1 OUT 1
1 -IN 2
1 +IN 3
V- 4
8 V+
7 2 OUT
6 2 -IN
5 2 +IN
1
2

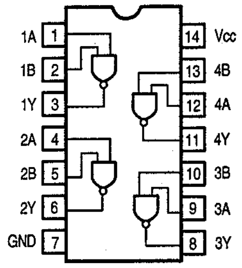
SN74LV14APW (AU: IC530, 532)
SN74LV00APW (AU: IC407, 408, 524, 529)
TC74VHC02FT (AU: IC410)
TC74HCU04AF (CO: IC704)
SN74LV74APW (AU: IC409)



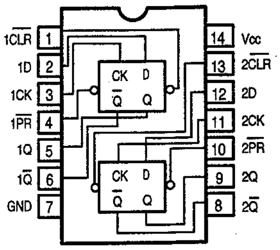
SN74LV14APW


1A 1
1Y 2
2A 3
2Y 4
3A 5
3Y 6
GND 7
14 Vcc
13 6A
12 6Y
11 5A
10 5Y
9 4A
8 4Y

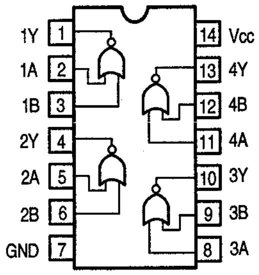
SN74LV00APW


1A 1
1B 2
1Y 3
2A 4
2B 5
2Y 6
GND 7
14 Vcc
13 4B
12 4A
11 4Y
10 3B
9 3A
8 3Y

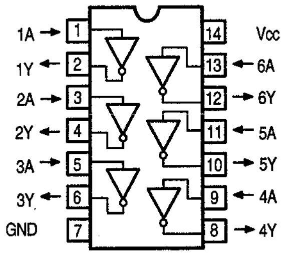
SN74LV74APW


1CLR 1
1D 2
1CK 3
1PR 4
1Q 5
1Q 6
GND 7
14 Vcc
13 2CLR
12 2D
11 2CK
10 2PR
9 2Q
8 2Q
CK D
Q Q
CK D
Q Q

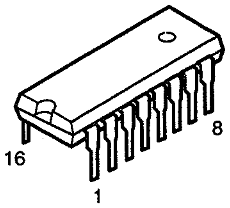
TC74VHC02FT

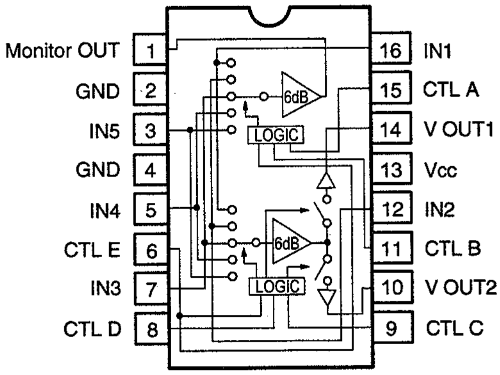

1Y 1
1A 2
1B 3
2Y 4
2A 5
2B 6
GND 7
14 Vcc
13 4Y
12 4B
11 4A
10 3Y
9 3B
8 3A

TC74HCU04AF


1A 1
1Y 2
2A 3
2Y 4
3A 5
3Y 6
GND 7
14 Vcc
13 6A
12 6Y
11 5A
10 5Y
9 4A
8 4Y

BA7625
(VI: IC302, 376, 377, 402, 450)
BA7626
(VI: IC301, 451~453)




Monitor OUT 1
GND 2
IN5 3
GND 4
IN4 5
CTL E 6
IN3 7
CTL D 8
16 IN1
15 CTL A
14 V OUT1
13 Vcc
12 IN2
11 CTL B
10 V OUT2
9 CTL C
6dB
LOGIC
6dB
LOGIC

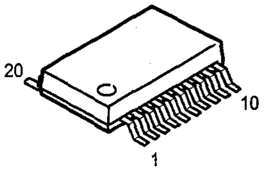
A	B	E	MONITOR OUT
L	L	*	IN 1
H	L	*	IN 2
L	H	*	IN 3
H	H	L	IN 4
H	H	H	IN 5

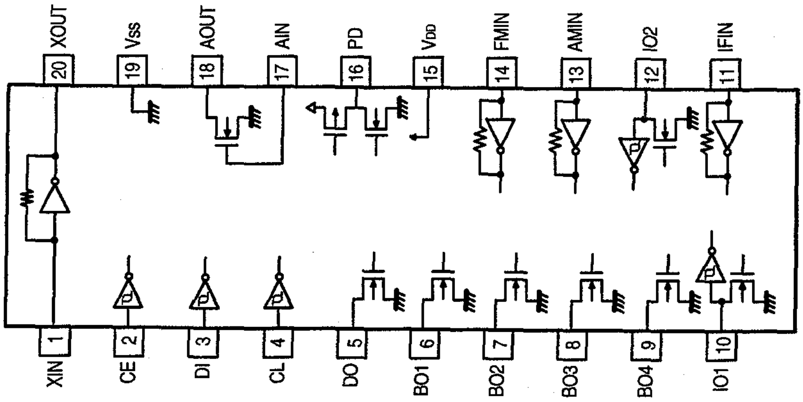
C	D	E	V OUT 1
L	L	*	—
H	L	*	IN 2
L	H	*	IN 3
H	H	L	IN 4
H	H	H	IN 5

C	D	E	V OUT 2
L	L	*	IN 1
H	L	*	—
L	H	*	IN 3
H	H	L	IN 4
H	H	H	IN 5

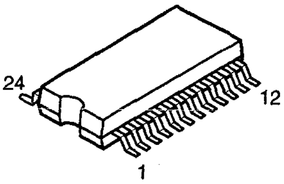
Note 1: * mark means that feasible for either H or L.
Note 2: Each input terminal is provided with sink chip clamp (BA7625).
Each input terminal takes 20kohm at the end (BA7626).

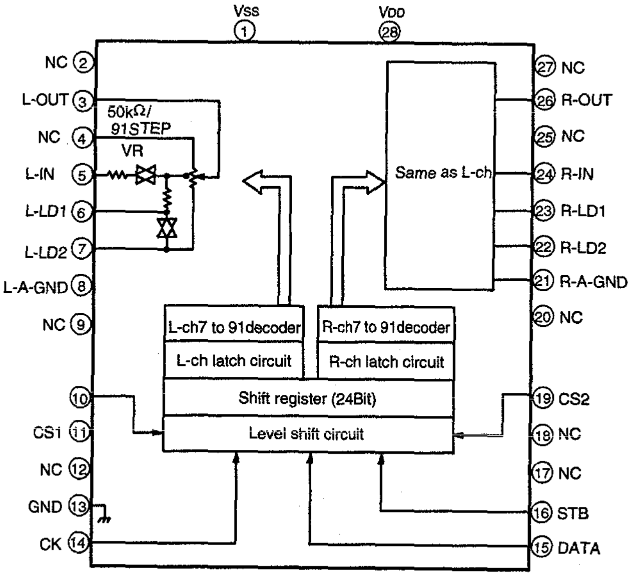
LC72131M (RE: IC507)



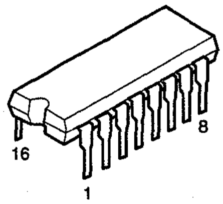

20 XOUT
19 Vss
18 AOUT
17 AIN
16 PD
15 VDD
14 FMIN
13 AMIN
12 IO2
11 IFIN
1 XIN
2 CE
3 DI
4 CL
5 DO
6 BO1
7 BO2
8 BO3
9 BO4
10 IO1

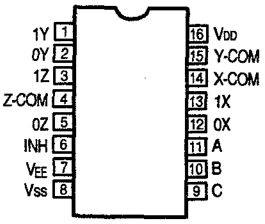
TC9459N (EX: IC805~808)

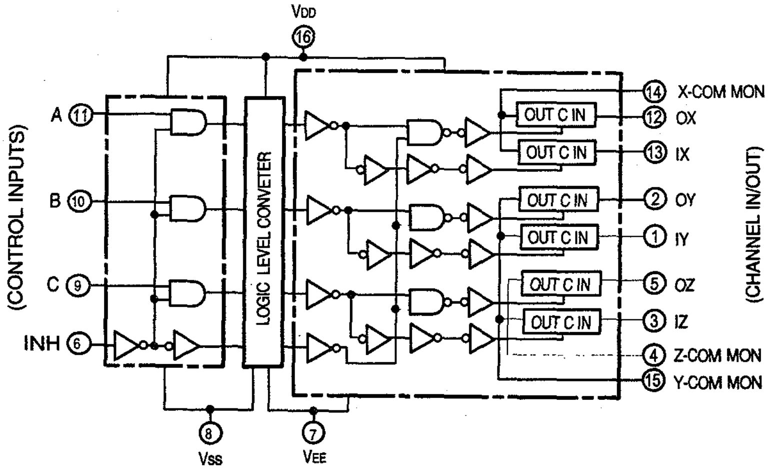



Vss ①
VDD ㉘
NC ②
L-OUT ③
NC ④
L-IN ⑤
L-LD1 ⑥
L-LD2 ⑦
L-A-GND ⑧
NC ⑨
⑩
CS1 ⑪
NC ⑫
GND ⑬
CK ⑭
50kΩ/
91STEP
VR
Same as L-ch
L-ch7 to 91decoder
R-ch7 to 91decoder
L-ch latch circuit
R-ch latch circuit
Shift register (24Bit)
Level shift circuit
㉗ NC
㉖ R-OUT
㉕ NC
㉔ R-IN
㉓ R-LD1
㉒ R-LD2
㉑ R-A-GND
⑳ NC
⑲ CS2
⑱ NC
⑰ NC
⑯ STB
⑮ DATA

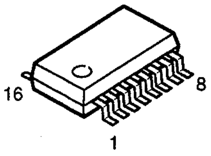
TC4053BP (VI: IC403)



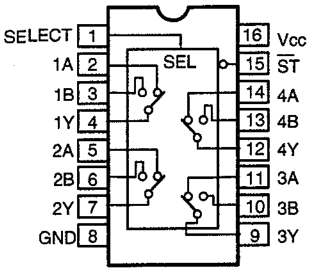

1Y 1
0Y 2
1Z 3
Z-COM 4
0Z 5
INH 6
VEE 7
Vss 8
16 VDD
15 Y-COM
14 X-COM
13 1X
12 0X
11 A
10 B
9 C


VDD ⑯
(CONTROL INPUTS)
A ⑪
B ⑩
C ⑨
INH ⑥
LOGIC LEVEL CONVETER
OUT C IN
⑭ X-COM MON
⑫ 0X
⑬ 1X
② 0Y
① 1Y
⑤ 0Z
③ 1Z
④ Z-COM MON
⑮ Y-COM MON
(CHANNEL IN/OUT)
⑧ Vss
⑦ VEE

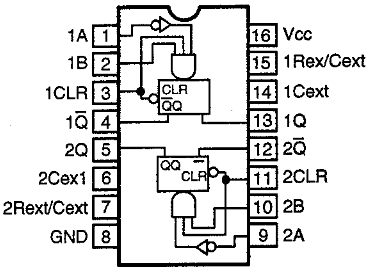
SN74AHC157PW
(AU: IC525)
TC74VHC123FT
(AU: IC517, 523)
TC74HC151AF
(CO: IC705)
SN74HC151NS
(AU: IC510)



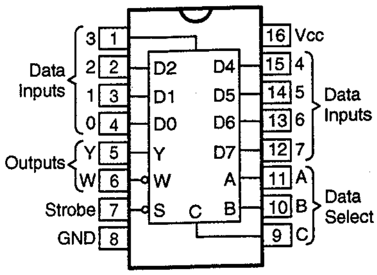
SN74AHC157PW


SELECT 1
1A 2
1B 3
1Y 4
2A 5
2B 6
2Y 7
GND 8
16 Vcc
15 ST
14 4A
13 4B
12 4Y
11 3A
10 3B
9 3Y
SEL

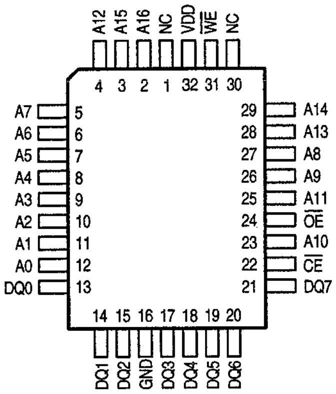
TC74VHC123FT


1A 1
1B 2
1CLR 3
1Q 4
2Q 5
2Cex1 6
2Rext/Cext 7
GND 8
16 Vcc
15 1Rex/Cext
14 1Cext
13 1Q
12 2Q
11 2CLR
10 2B
9 2A
CLR
QQ
QQ
CLR

TC74HC151AF
SN74HC151NS


Data Inputs
3 1
2 2
1 3
0 4
Outputs
Y 5
W 6
Strobe 7
GND 8
16 Vcc
15 4
14 5
13 6
12 7
Data Inputs
11 A
10 B
9 C
Data Select
D2
D1
D0
Y
W
S
D4
D5
D6
D7
A
B
C

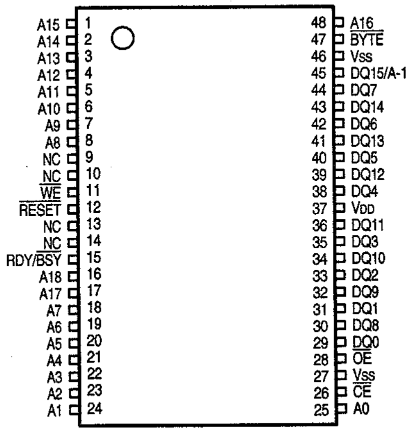
W29EE011P-90 (AU: IC303)


A12 4
A15 3
A16 2
NC 1
VDD 32
WE 31
NC 30
A7 5
A6 6
A5 7
A4 8
A3 9
A2 10
A1 11
A0 12
DQ0 13
29 A14
28 A13
27 A8
26 A9
25 A11
24 OE
23 A10
22 CE
21 DQ7
14 DQ1
15 DQ2
16 GND
17 DQ3
18 DQ4
19 DQ5
20 DQ6

Terminal Function

Name	Function
A0 - A16	Address input
DQ0 - DQ7	Data in/output
$\overline{\text{CE}}$	Chip enable
$\overline{\text{OE}}$	Output enable
$\overline{\text{WE}}$	Write enable
V_{DD}	Power terminal
GND	GND
NC	No connection

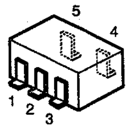
TC58FVT800FT-12 (AU: IC403)


A15 1
A14 2
A13 3
A12 4
A11 5
A10 6
A9 7
A8 8
NC 9
NC 10
WE 11
RESET 12
NC 13
NC 14
RDY/BSY 15
A18 16
A17 17
A7 18
A6 19
A5 20
A4 21
A3 22
A2 23
A1 24
48 A16
47 BYTE
46 Vss
45 DQ15/A-1
44 DQ7
43 DQ14
42 DQ6
41 DQ13
40 DQ5
39 DQ12
38 DQ4
37 VDD
36 DQ11
35 DQ3
34 DQ10
33 DQ2
32 DQ9
31 DQ1
30 DQ8
29 DQ0
28 OE
27 Vss
26 CE
25 A0

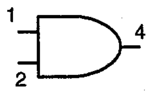
Terminal Function

Symbol	Function Name
A0~A18	Address input
DQ0~DQ14	Data in/output
DQ15/A-1	Data in/output/Address input
$\overline{\text{CE}}$	Chip enable input
$\overline{\text{OE}}$	Output enable input
$\overline{\text{BYTE}}$	Word/bute select input
$\overline{\text{WE}}$	Write enable input
RDY/$\overline{\text{BSY}}$	Ready/busy output
$\overline{\text{RESET}}$	Hardware reset input
NC	No connection
V_{DD}	Power
Vss	GND

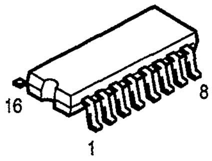
SN74AHCT1G08DBV (AU: IC415~420)

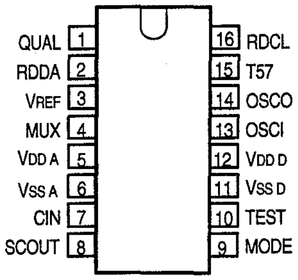


1: A
2:B
3:GND
4:Y
5:Vcc



Europe model only
SAA6579T (CO: IC301)

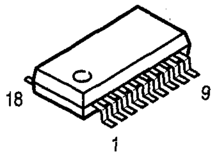


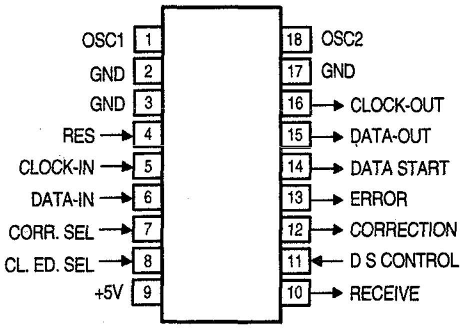

QUAL 1
RDDA 2
VREF 3
MUX 4
VDD A 5
VSS A 6
CIN 7
SCOUT 8
16 RDCL
15 T57
14 OSCO
13 OSCI
12 VDD D
11 VSS D
10 TEST
9 MODE

SAA6579T Terminal Function

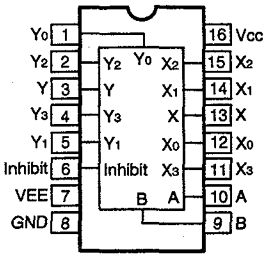
Pin No.	Symbol	Function
1	QUAL	Quality indication output.
2	RDDA	RDS data output.
3	VREF	Reference voltage output (0.5 VDD A).
4	MUX	Multiplex signal input.
5	VDD A	+5V power supply for analog part.
6	VSS A	Ground for analog part (0V).
7	CIN	Subcarrier input to comparator.
8	SCOUT	Subcarrier ouput of reconstruction filter.
9	MODE	Oscillation mode/test control input.
10	TEST	Test enable input.
11	VSS D	Ground for digital part (0V).
12	VDD D	+5V power supply for digital part.
13	OSCI	Oscillator input.
14	OSCO	Oscillator output.
15	T57	57kHz clock signal output.
16	RDCL	RDS clock output.

Europe model only
LC7074M (CO: IC302)

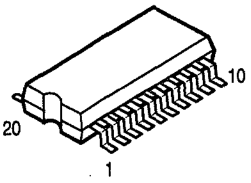


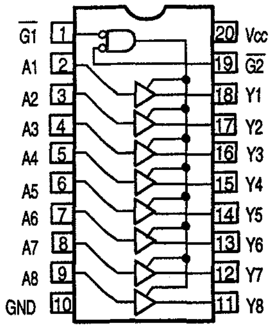

OSC1 1
GND 2
GND 3
RES 4
CLOCK-IN 5
DATA-IN 6
CORR. SEL 7
CL. ED. SEL 8
+5V 9
18 OSC2
17 GND
16 CLOCK-OUT
15 DATA-OUT
14 DATA START
13 ERROR
12 CORRECTION
11 D S CONTROL
10 RECEIVE

TC74HC4052 (VI: IC371, 375, 401)

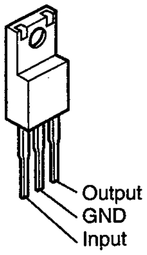

Y0 1
Y2 2
Y 3
Y3 4
Y1 5
Inhibit 6
VEE 7
GND 8
16 Vcc
15 X2
14 X1
13 X
12 X0
11 X3
10 A
9 B
Y2
Y0
X2
Y
X1
Y3
X
Y1
X0
Inhibit
X3
B
A

TC74VHC541FT (AU: IC413)
TC74VHCT541AFT (AU: IC414)

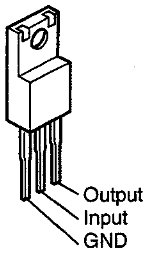



G1 1
A1 2
A2 3
A3 4
A4 5
A5 6
A6 7
A7 8
A8 9
GND 10
20 Vcc
19 G2
18 Y1
17 Y2
16 Y3
15 Y4
14 Y5
13 Y6
12 Y7
11 Y8

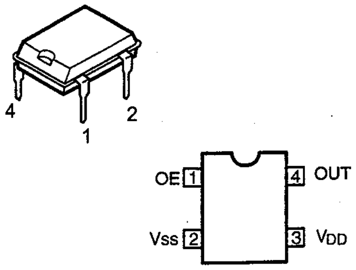
NJM7805FA (S) (RE: IC902, 903)
NJM7806FA (S)
(PO: IC502)
(RE: IC904)
NJM7812FA (S) (RE: IC905, 906)
BA033T (AU: 601)


Output
GND
Input

NJM7912FA (RE: IC907)

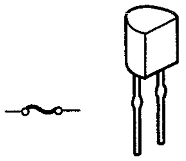

Output
Input
GND

SG-8002DCPT (12.288MHz)
(AU: IC528)


4
1
2
OE 1
Vss 2
4 OUT
3 VDD

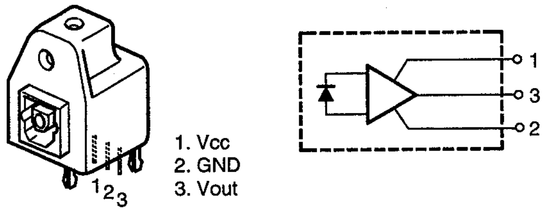
● IC PROTECTOR

ICP-N15 (PO: IC501)



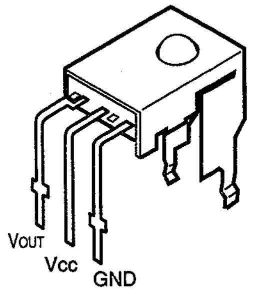
● OPTICAL

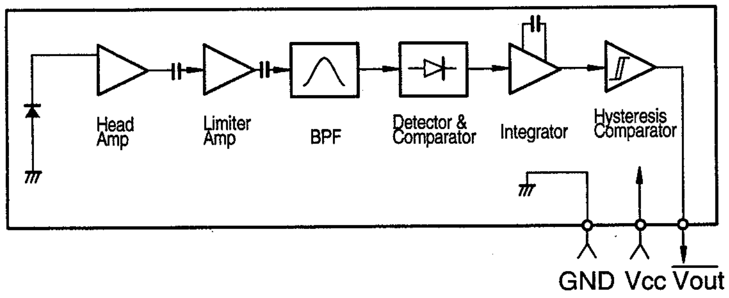
INPUT
GP1F37R1 (CO: IC701~703)


1 2 3
1. Vcc
2. GND
3. Vout
1
3
2

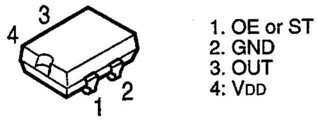
● OTHERS

GP1U271X (Remote Control Sensor)
(EX: IC102)


VOUT
Vcc
GND

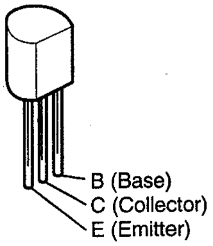

Head Amp
Limiter Amp
BPF
Detector & Comparator
Integrator
Hysteresis Comparator
GND
Vcc
Vout

HG-8002JA (X'tal Oscillator)
(AU: IC406)

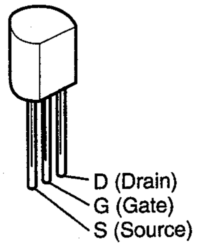

3
4
1
2
1. OE or ST
2. GND
3. OUT
4: VDD

● TRANSISTORS

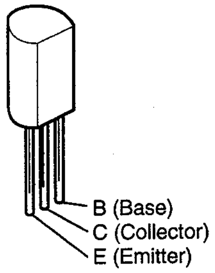
2SA970 (BL)
2PA1015GR
2SA988 (E/F)
2SC1841 (E/F)
2SC2878 (A/B)
2PC1815 (BL)


B (Base)
C (Collector)
E (Emitter)

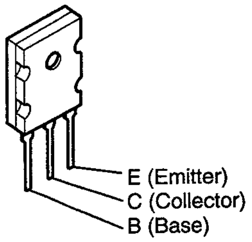
2SK373


D (Drain)
G (Gate)
S (Source)

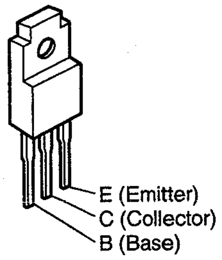
2SC2705 (O) / (Y)


B (Base)
C (Collector)
E (Emitter)

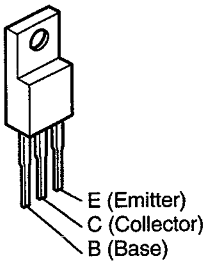
2SA1491
2SC3855


E (Emitter)
C (Collector)
B (Base)

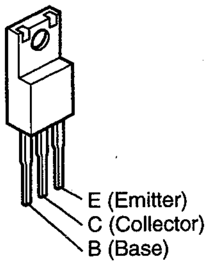
2SB1186A (D)
2SD1763A (D)


E (Emitter)
C (Collector)
B (Base)

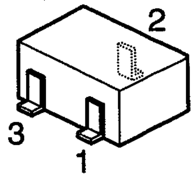
2SA1670 (O/P/Y)


E (Emitter)
C (Collector)
B (Base)

2SC4495


E (Emitter)
C (Collector)
B (Base)

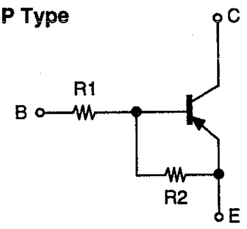
DTA114TK
DTA114EK
DTA144EK
DTC114EK
DTC144EK
DTC323TK
RN2402



1: GND/Emitter
2: Out/Collector
3: In/Base

DTA114TK
DTA114EK
DTA144EK
RN2402

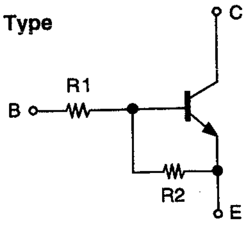
PNP Type



	R1	R2
DTA114TK	10kohm	–
DTA114EK	10kohm	10kohm
DTA144EK	47kohm	47kohm
RN2402	10kohm	10kohm

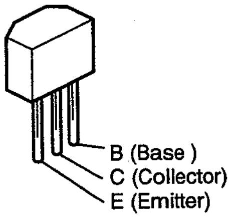
DTC114EK
DTC144EK
DTC323TK

NPN Type

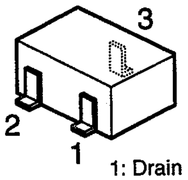


	R1	R2
DTC114EK	10kohm	10kohm
DTC144EK	47kohm	47kohm
DTC323TK	2.2kohm	–

2SA933S (S)
2SC3311A
2SC1645S (B)

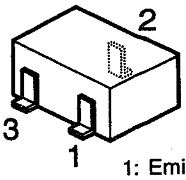

B (Base)
C (Collector)
E (Emitter)

2SK209 (GR)



1: Drain
2: Source
3: Gate

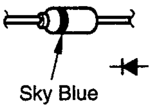
2SA1182 Y/O
2SC2996 (Y)
2SC3326 (A/B)
2SD601A



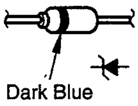
1: Emitter
2: Collector
3: Base

● DIODES (included LED)

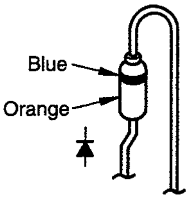
1SS270A



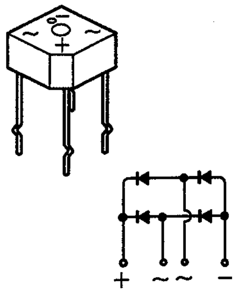
MTZJ3.3A MTZJ9.1A
MTZJ5.6A MTZJ12A
MTZJ6.2A MTZJ36A
MTZJ7.5A



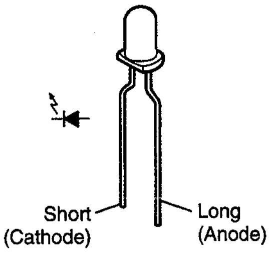
1SR35-200A


Blue
Orange

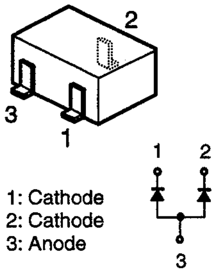
S4VB20



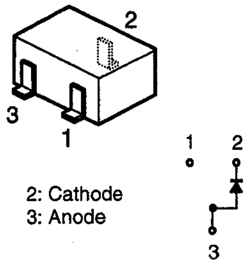
SEL1210S (Red)
SEL1410E (Green)
SEL4214S


Short
(Cathode)
Long
(Anode)

MA151WK


2
3
1
1
2
1: Cathode
2: Cathode
3: Anode
3

MA151A


2
3
1
1
2
2: Cathode
3: Anode
3

NOTE FOR PARTS LIST

- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:

Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.:	RN	14K	2E	182	G	FR
	Type	Shape and performance	Power	Resistance	Allowable error	Others

RD : Carbon	2B : 1/8W	F : ±1%	P : Pulse-resistant type
RC : Composition	2E : 1/4W	G : ±2%	NL : Low noise type
RS : Metal oxide film	2H : 1/2W	J : ±5%	NB : Non-burning type
RW : Winding	3A : 1W	K : ±10%	FR : Fuse-resistor
RN : Metal film	3D : 2W	M : ±20%	F : Lead wire forming
RK : Metal mixture	3F : 3W		
	3H : 5W		

✻ Resistance

1 8 2 ⇒ 1800 ohm = 1.8 kohm
2 (last digit): Indicates number of zeros after effective number.
1 8: 2-digit effective number.
- Units: ohm

1 R 2 ⇒ 1.2 ohm
2 (last digit): 1-digit effective number.
1 R: 2-digit effective number, decimal point indicated by R.
- Units: ohm

● Capacitors

Ex.:	CE	04W	1H	2R2	M	BP
	Type	Shape and performance	Dielectric strength	Capacity	Allowable error	Others

CE : Aluminum foil electrolytic	0J : 6.3V	F : ±1%	HS : High stability type
CA : Aluminum solid electrolytic	1A : 10V	G : ±2%	BP : Non-polar type
CS : Tantalum electrolytic	1C : 16V	J : ±5%	HR : Ripple-resistant type
CQ : Film	1E : 25V	K : ±10%	DL : For change and discharge
CK : Ceramic	1V : 35V	M : ±20%	HF : For assuring high frequency
CC : Ceramic	1H : 50V	Z : +80% −20%	U : UL part
CP : Oil	2A : 100V		C : CSA part
CM : Mica	2B : 125V	P : +100% −0%	W : UL-CSA type
CF : Metallized	2C : 160V		F : Lead wire forming
CH : Metallized	2D : 200V	C : ±0.25pF	
	2E : 250V	D : ±0.5pF	
	2H : 500V	= : Others	
	2J : 630V		

✻ Capacity (electrolyte only)

2 2 2 ⇒ 2200µF
2 (last digit): Indicates number of zeros after effective number.
2 2: 2-digit effective number.
- Units: µF.

2 R 2 ⇒ 2.2µF
2 (last digit): 1-digit effective number.
2 R: 2-digit effective number, decimal point indicated by R.
- Units: µF.

✻ Capacity (except electrolyte)

2 2 2 ⇒ 2200pF=0.0022µF
2 (last digit): (More than 2)—Indicates number of zeros after effective number.
2 2: 2-digit effective number.
- Units: µF.

2 2 1 ⇒ 220pF
1 (last digit): (0 or 1) Indicates number of zeros after effective number.
2 2: 2-digit effective number.
- Units: pF.

- When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

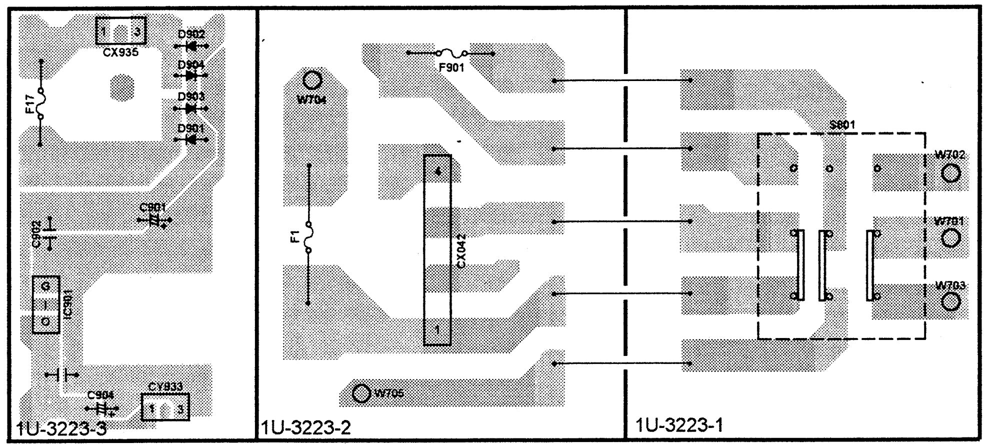
PARTS LIST OF P.W.B. UNIT

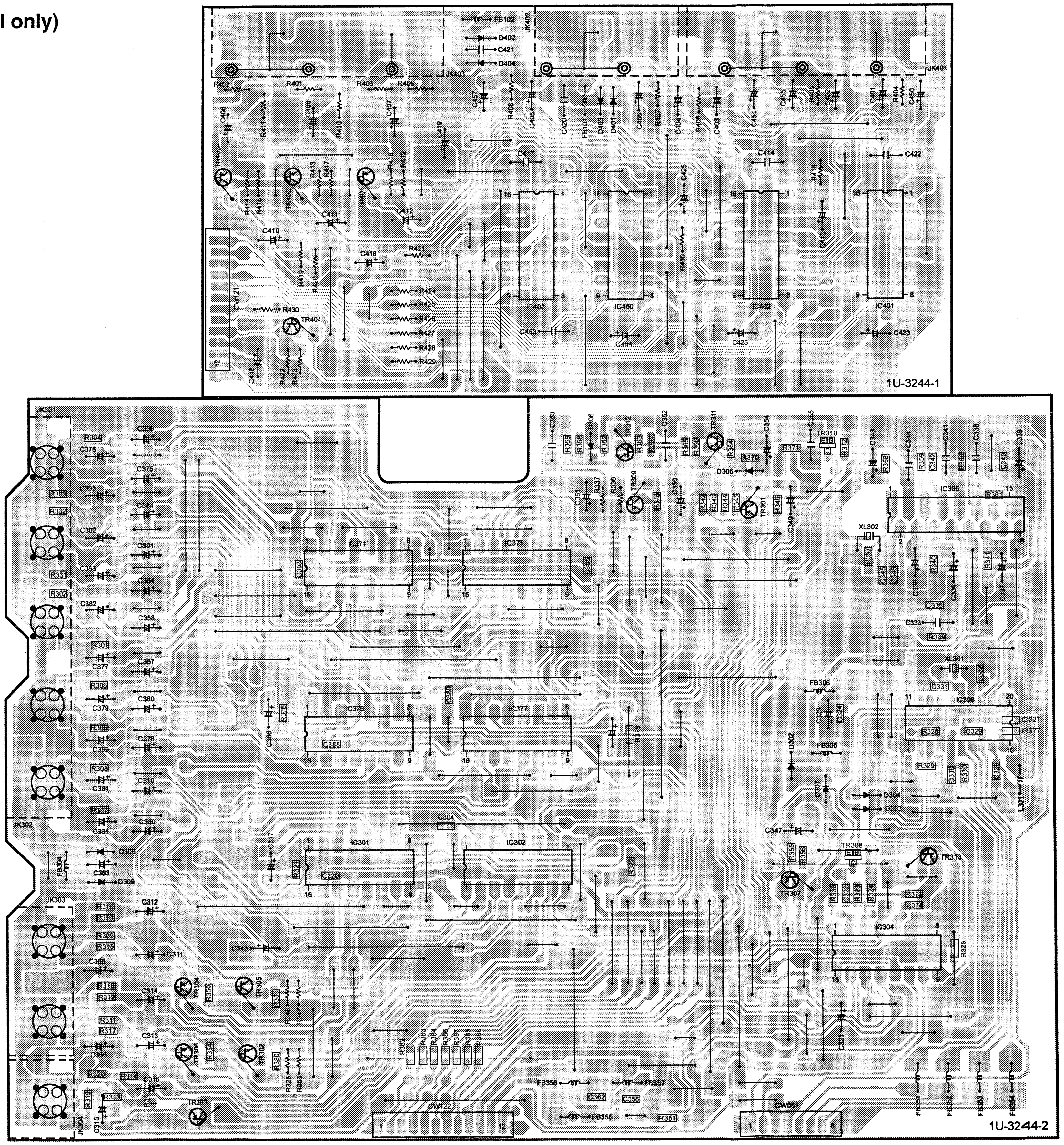
1U-3198 POWER UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC451~453	263 0857 003	IC BA7626	
IC501	268 0073 905	IC ICP-N15T	
IC502	263 0793 002	IC NJM7806FA(S)	
TR451~453	271 0290 904	Transistor 2PA1015GR	
TR507,508	273 0454 908	Transistor 2SC1645S(B)	
TR511,512	274 0158 003	Transistor 2SD1763A(D)	
TR513,514	272 0115 008	Transistor 2SB1186A(D)	
TR519,520	273 0235 923	Transistor 2SC1841(E/F)	
TR527,528	273 0454 908	Transistor 2SC1645S(B)	
TR531,532	274 0158 003	Transistor 2SD1763A(D)	
TR533,534	272 0115 008	Transistor 2SB1186A(D)	
TR539,540	273 0235 923	Transistor 2SC1841(E/F)	
TR544	273 0454 908	Transistor 2SC1645S(B)	
TR546	274 0158 003	Transistor 2SD1763A(D)	
TR547	272 0115 008	Transistor 2SB1186A(D)	
TR550	273 0235 923	Transistor 2SC1841(E/F)	
TR551	271 0131 924	Transistor 2SA988(E/F)	
TR554	273 0429 904	Transistor 2SC3311A	
TR555	271 0192 905	Transistor 2SA933S(S)	
TR556,557	273 0429 904	Transistor 2SC3311A	
TR558	271 0192 905	Transistor 2SA933S(S)	
TR559	273 0429 904	Transistor 2SC3311A	
TR560~566	273 0429 904	Transistor 2SC3311A	
D451,452	276 0432 903	Diode 1SS270A	
D501~505	276 0432 903	Diode 1SS270A	
D507~512	276 0553 905	Diode 1SR35-200A	
D513~517	276 0432 903	Diode 1SS270A	
D518,519	276 0305 001	Diode S4VB20	
D520	276 0432 903	Diode 1SS270A	
D526~535	276 0432 903	Diode 1SS270A	
ZD501	276 0644 911	Zener diode MTZJ7.5A	
ZD502~511	276 0634 905	Zener diode MTZJ3.3A	
SC501	279 0016 904	Thyristor SF0R1A42	
RESISTORS GROUP			
R551,552	241 2387 908	Carbon film 1 kohm 1/4W(NB)	RD14B2E102JNBS
R525~528	244 2052 957	Metal oxide 5.6 kohm 1W	RS14B3A562JNBS(S)
R537,538	241 2378 962	Carbon film 330 ohm 1/4W(NB)	RD14B2E331JNBS
R539~542	241 2387 908	Carbon film 1 ohm 1/4W(NB)	RD14B2E010JNBS
R543~550	244 2043 982	Metal oxide 0.22 ohm 1W	RS14B3AR22JNBS(S)
R557,558	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)
R567,568	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)
R571	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)
R605~608	244 2052 957	Metal oxide 5.6 kohm 1W	RS14B3A562JNBS(S)
R619,620	241 2378 962	Carbon film 330 ohm 1/4W(NB)	RD14B2E331JNBS
R621~624	241 2387 908	Carbon film 1 ohm 1/4W(NB)	RD14B2E010JNBS
R625~632	244 2043 982	Metal oxide 0.22 ohm 1W	RS14B3AR22JNBS(S)
R633,634	241 2387 908	Carbon film 1 kohm 1/4W(NB)	RD14B2E102JNBS
R639~642	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)
R647,648	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)
R672,673	244 2052 957	Metal oxide 5.6 kohm 1W	RS14B3A562JNBS(S)
R679	241 2378 962	Carbon film 330 ohm 1/4W(NB)	RD14B2E331JNBS
R680,681	241 2387 908	Carbon film 1 ohm 1/4W(NB)	RD14B2E010JNBS
R682~685	244 2043 982	Metal oxide 0.22 ohm 1W	RS14B3AR22JNBS(S)
R686	241 2387 908	Carbon film 1 kohm 1/4W(NB)	RD14B2E102JNBS
R690	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)
R694	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)
R714,715	243 2039 032	Winding 0.1 ohm 5W	RW99=3H0R1K
R734	Note	Note	
R757,758	244 2052 960	Metal oxide 220 ohm 1W	RS14B3A221JNBS(S)
VR501~505	211 6132 909	Semi fixed resistor 4.7 kohm	V06PB472
CAPACITORS GROUP			
C451~453	253 9039 906	Ceramic 0.1 µF/25V	CK45=1E104Z
C454~456	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C457~459	254 4533 950	Electrolytic 470 µF/6.3V	CE04W0J471M SMG/RE3
C460~462	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C463~465	253 1181 917	Ceramic 0.022 µF/50V	CK45F1H223Z
C466~471	254 4524 972	Electrolytic 4.7 µF/50V	CE04W1H4R7M SMG/RE3
C472~475	254 4538 942	Electrolytic 100 µF/16V	CE04W1C101M SMG/RE3
C501,502	253 4543 905	Ceramic 220 pF/500V	CC45SL2H221J
C505,506	253 4543 905	Ceramic 220 pF/500V	CC45SL2H221J
C509	253 4543 905	Ceramic 220 pF/500V	CC45SL2H221J
C513,514	254 4525 913	Electrolytic 47 µF/50V	CE04W1H470M SMG/RE3
C515,516	254 4527 982	Electrolytic 10 µF/100V	CE04W2A100M SMG/RE3
C521,522	256 1058 971	Metalized 0.1 µF/50V	CF93A1H104J (JL)
C525,526	Note	Note	
C541,542	254 4525 913	Electrolytic 47 µF/50V	CE04W1H470M SMG/RE3
C545,546	254 4527 982	Electrolytic 10 µF/100V	CE04W2A100M SMG/RE3
C549,550	256 1058 971	Metalized 0.1 µF/50V	CF93A1H104J (JL)
C553,554	Note	Note	
C566	254 4525 913	Electrolytic 47 µF/50V	CE04W1H470M SMG/RE3
C567	254 4527 982	Electrolytic 10 µF/100V	CE04W2A100M SMG/RE3
C570	256 1058 971	Metalized 0.1 µF/50V	CF93A1H104J (JL)
C572	Note	Note	
C573	253 1181 904	Ceramic 0.01 µF/50V	CK45F1H103Z
C583	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C584	253 9039 906	Ceramic 0.1 µF/25V	CK45=1E104Z
C585	254 4300 989	Electrolytic 330 µF/6.3V	CE04W0J331M SRE
C586	253 9039 906	Ceramic 0.1 µF/25V	CK45=1E104Z
C587	254 4533 947	Electrolytic 330 µF/6.3V	CE04W0J331M SMG/RE3
C588	253 1181 904	Ceramic 0.01 µF/50V	CK45F1H103Z

1 2 3 4 5 6 7 8

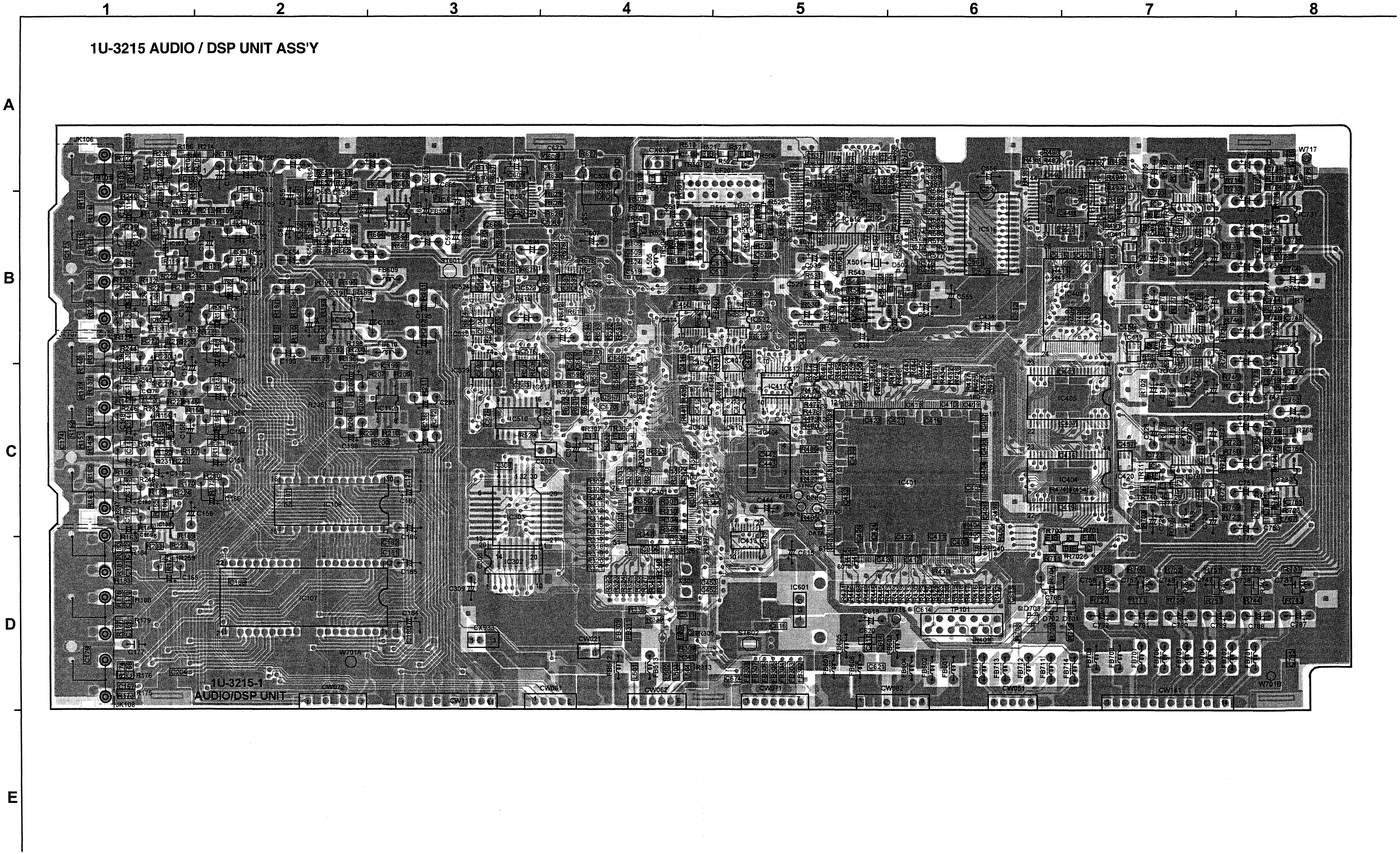
1U-3223 VOLTAGE SELECT UNIT ASS'Y (Asia model & Taiwan model only)
1U-3244 VIDEO UNIT ASS'Y


CX935
D902
D904
D903
D901
F17
C902
C901
IC901
C904
CY933
1U-3223-3
F901
W704
F1
CX942
W705
1U-3223-2
S801
W702
W701
W703
1U-3223-1

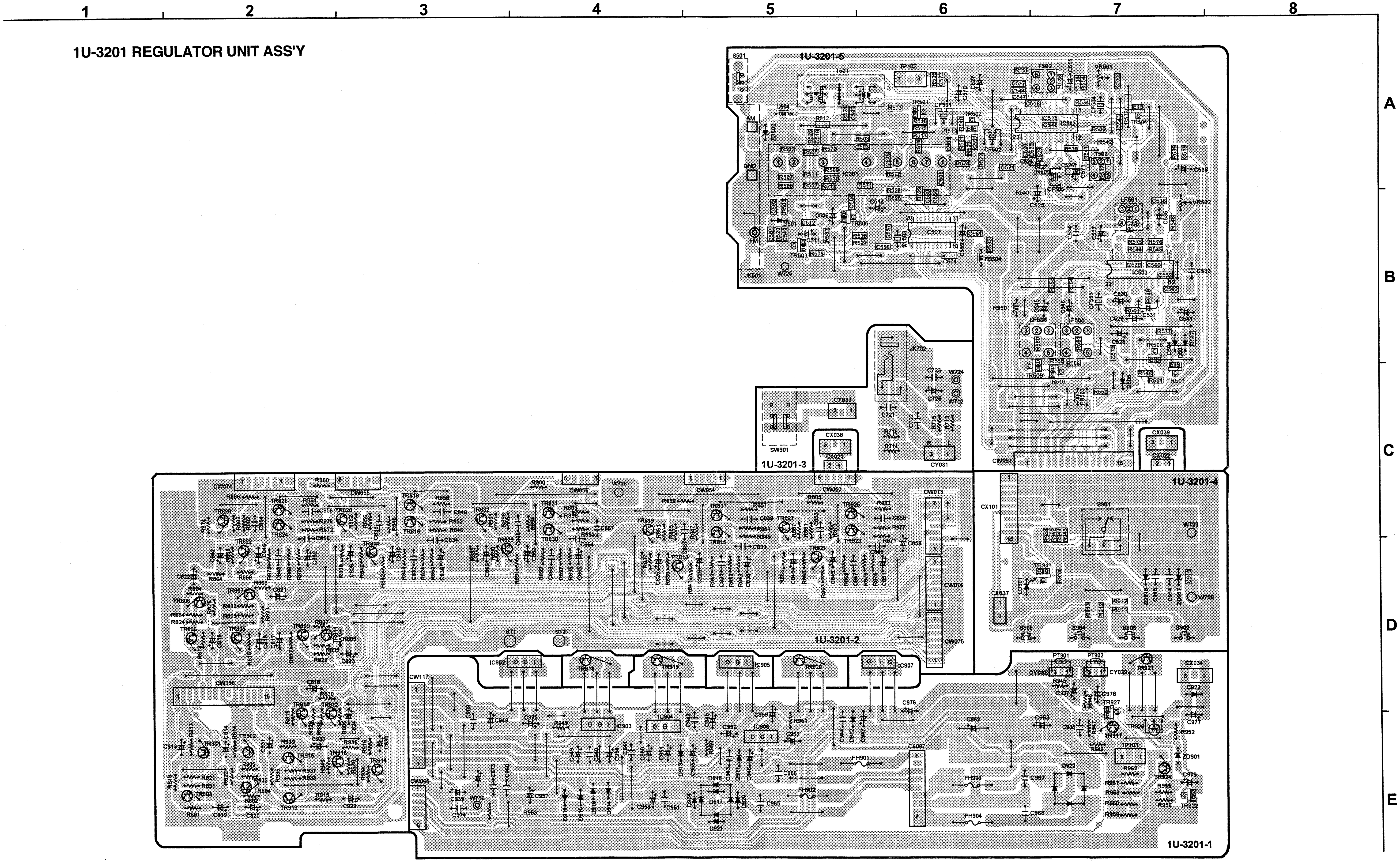

FB102
D402
C421
D404
JK402
JK403
JK401
TR403
TR402
TR401
TR404
IC403
IC450
IC402
IC401
CW121
1U-3244-1
JK301
JK302
JK303
JK304
IC371
IC375
IC376
IC377
IC301
IC302
IC305
IC306
IC304
XL302
XL301
TR307
TR308
TR310
CW122
CW081
1U-3244-2

A
B
C
D
E

1U-3215 AUDIO / DSP UNIT ASS'Y


1
2
3
4
5
6
7
8
A
B
C
D
E
JK106
JK107
JK108
W717
W701A
W701B
W715
1U-3215-1
AUDIO/DSP UNIT
IC106
IC107
IC302
IC303
IC301
IC401
IC404
IC405
IC406
IC409
IC410
IC411
IC433
IC507
IC512
IC516
IC601
X501
TP101
CW021
CW031
CW051
CW061
CW062
CW071
CW072
CW081
CW082
CW111
CW161
CX031
CX035
CZ021

1U-3201 REGULATOR UNIT ASS'Y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7
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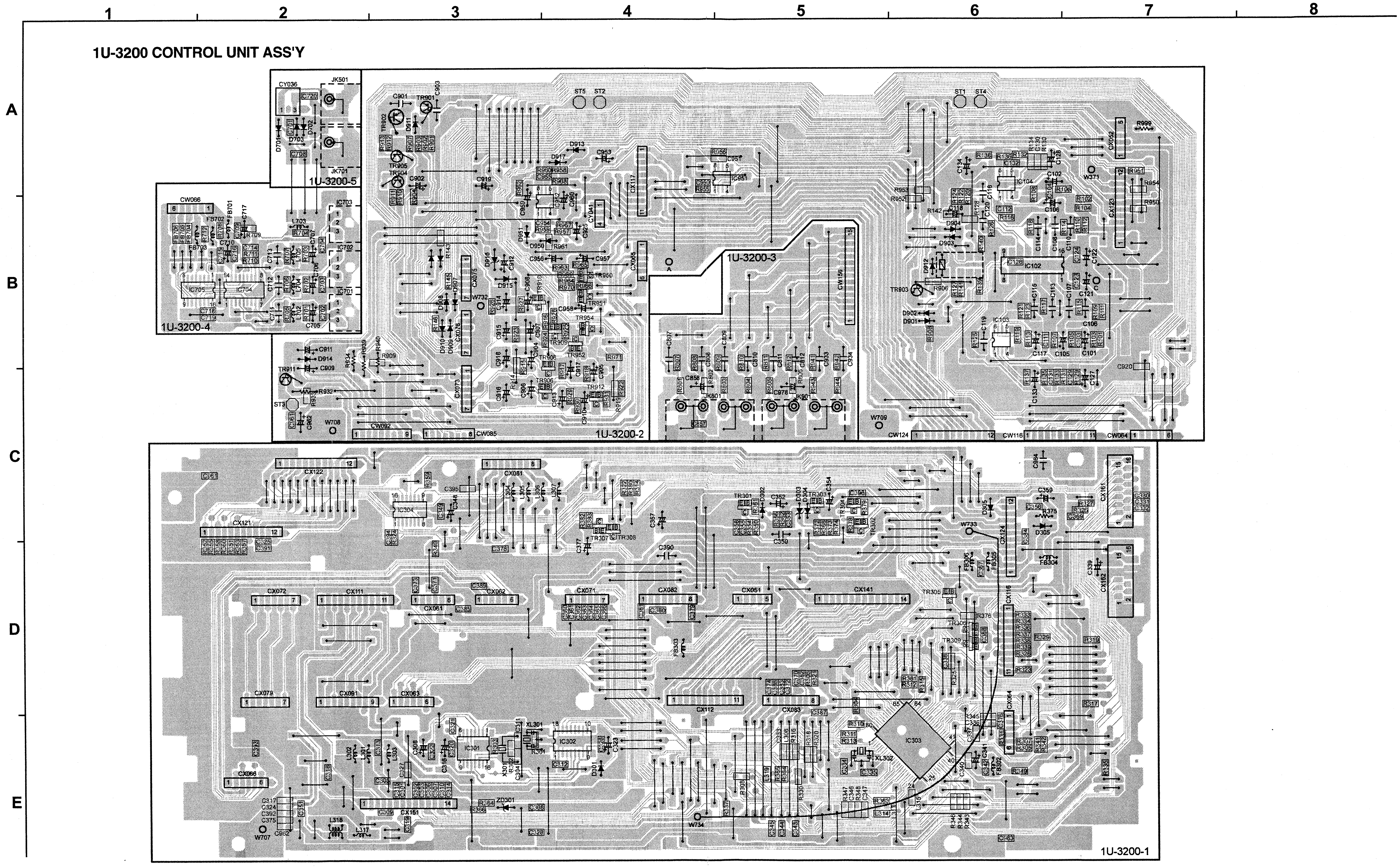
A
B
C
D
E
1U-3201-5
1U-3201-3
1U-3201-4
1U-3201-2
1U-3201-1
S501
T501
T502
TP102
IC301
IC502
IC503
IC507
JK501
JK702
SW901
S901
AM
GND
FM
CW074
CW055
CW056
CW054
CW057
CW073
CW076
CW075
CW117
CW065
CW156
CW151
CX101
CX087
CX037
CX038
CX039
CX021
CX022
CX034
CY037
CY031
CY038
CY039
IC902
IC903
IC904
IC905
IC906
IC907
TR918
TR919
TR920
FH901
FH902
FH903
FH904
PT901
PT902
TP101
W726
W723
W706
W710
W724
W712
W725
ST1
ST2

1U-3200 CONTROL UNIT ASS'Y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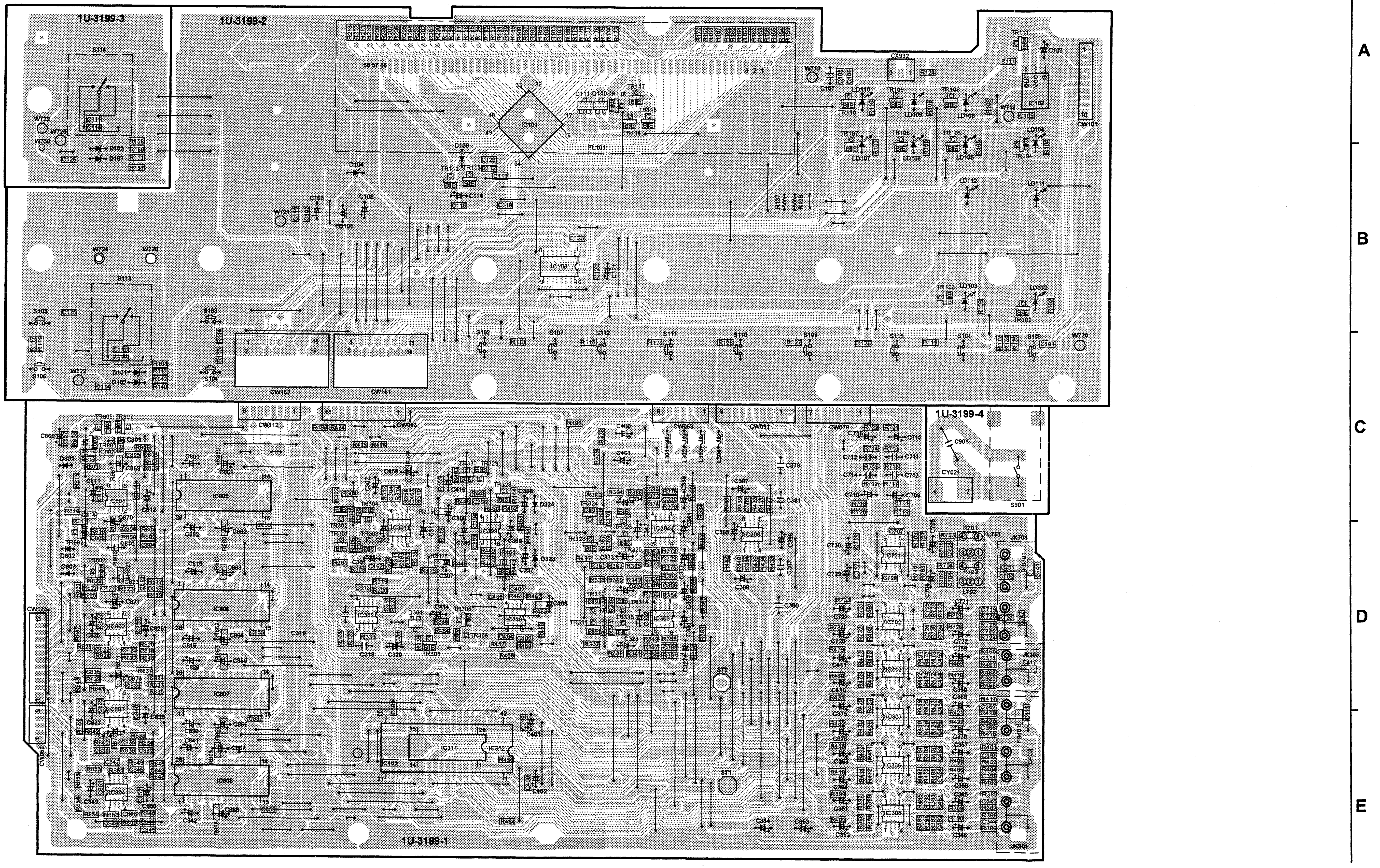
2
3
4
5
6
7
8
A
B
C
D
E
1U-3200-1
1U-3200-2
1U-3200-3
1U-3200-4
1U-3200-5
IC102
IC103
IC104
IC301
IC302
IC303
IC304
IC704
IC705
IC951
JK501
JK701
JK801
JK901
CX121
CX122
CX081
CX072
CX111
CX061
CX062
CX071
CX082
CX051
CX141
CX112
CX093
CX079
CX091
CX063
CX066
CX151
CX161
CX162
CX124
CX116
CX064
CX117
CX065
CX075
CX076
CX073
CX123
CX052
CW066
CW092
CW085
CW124
CW116
CW064
CW156
CY036
W707
W708
W709
W732
W733
W734
W371
ST1
ST2
ST3
ST4
ST5
XL301
XL302

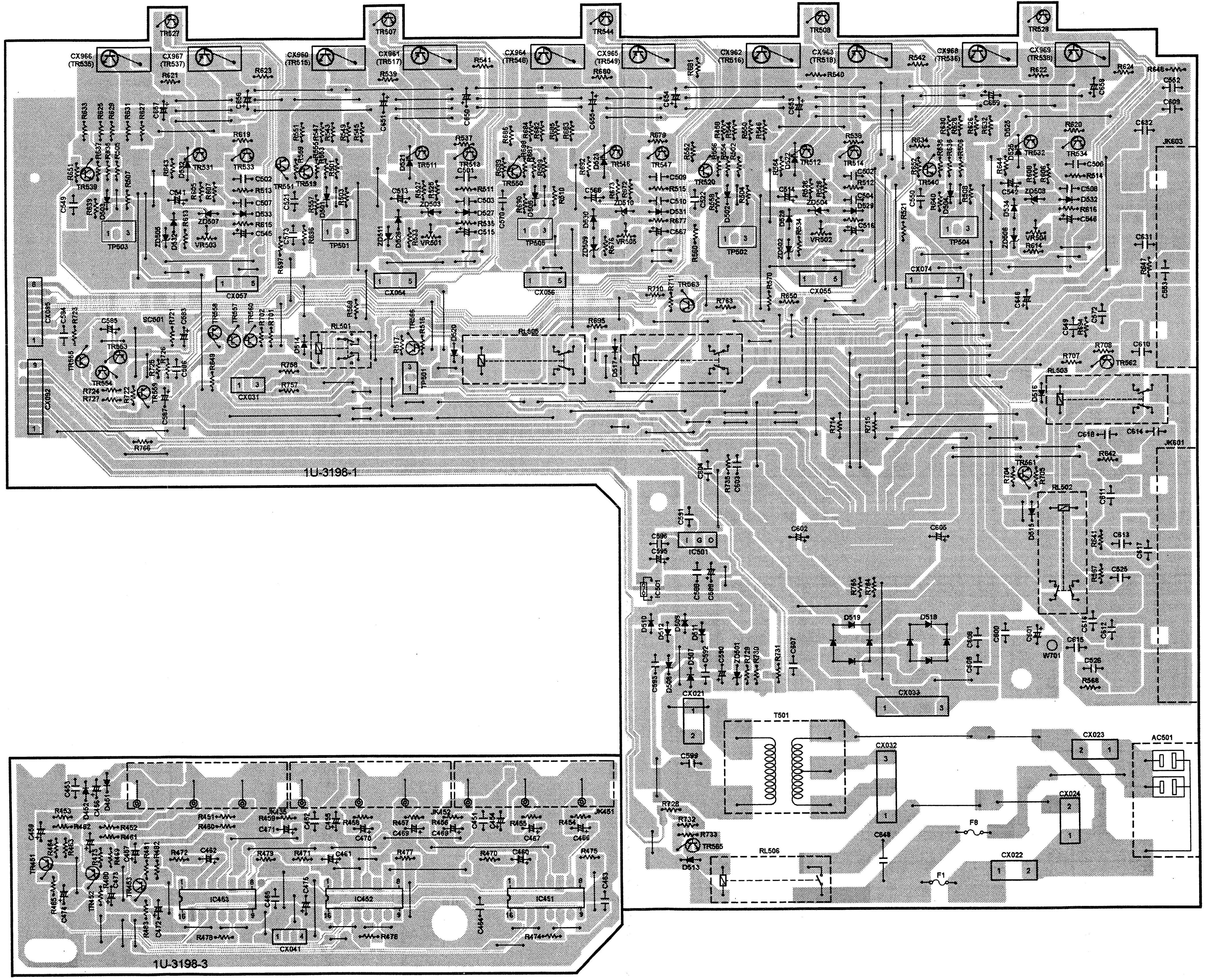
1 2 3 4 5 6 7 8

1U-3199 EXT.IN UNIT ASS'Y


A
B
C
D
E
1U-3199-3
1U-3199-2
1U-3199-1
1U-3199-4
S114
S113
S901
IC101
IC102
IC103
FL101
CW101
CW112
CW161
CW162
CX932
CY021
JK701
JK301
ST1
ST2
IC801
IC802
IC803
IC804
IC805
IC806
IC807
IC808
IC301
IC302
IC303
IC304
IC305
IC306
IC307
IC308
IC309
IC310
IC311
IC312
IC313
IC701
IC702

PRINTED WIRING BOARDS

1U-3198 POWER UNIT ASS'Y


1
2
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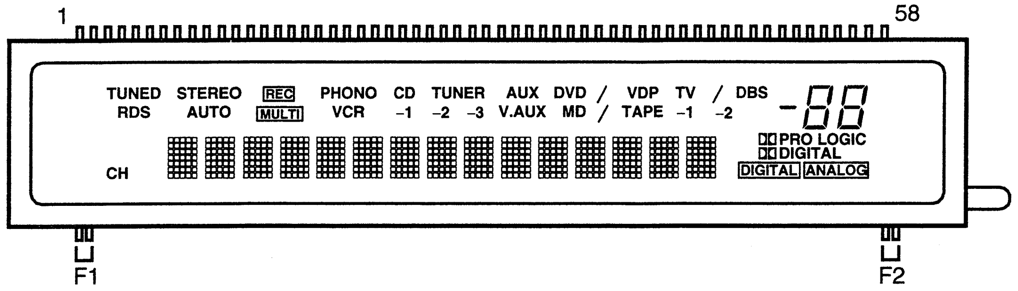
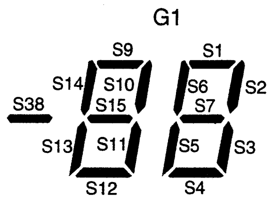
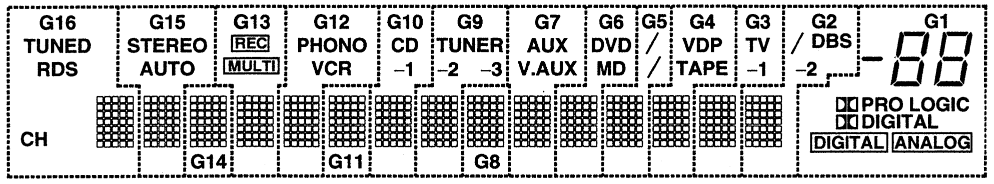
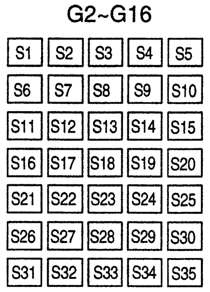
6
7
8
A
B
C
D
E
1U-3198-1
1U-3198-3
T501
RL501
RL502
RL503
RL505
RL506
AC501
F1
F8
IC451
IC452
IC453
IC601
CX021
CX022
CX023
CX024
CX031
CX032
CX033
CX041
CX055
CX056
CX057
CX064
CX074
CX092
CX095
JK451
JK452
JK453
JK601
JK603
TP501
TP502
TP503
TP504
TP505
TP601

FL DISPLAY CM1690C (EX: FL101)


1
58
TUNED
RDS
STEREO
AUTO
REC
MULTI
PHONO
VCR
CD
-1
TUNER
-2
-3
AUX
V.AUX
DVD
MD
/
/
VDP
TAPE
TV
-1
/
-2
DBS
-88
DD PRO LOGIC
DD DIGITAL
DIGITAL
ANALOG
CH
F1
F2


G1
S9
S1
S14
S10
S6
S2
S38
S15
S7
S13
S11
S5
S3
S12
S4


G16
TUNED
RDS
G15
STEREO
AUTO
G13
REC
MULTI
G12
PHONO
VCR
G10
CD
-1
G9
TUNER
-2 -3
G7
AUX
V.AUX
G6
DVD
MD
G5
/
/
G4
VDP
TAPE
G3
TV
-1
G2
/ DBS
-2
G1
-88
DD PRO LOGIC
DD DIGITAL
DIGITAL
ANALOG
CH
G14
G11
G8


G2~G16
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
S16
S17
S18
S19
S20
S21
S22
S23
S24
S25
S26
S27
S28
S29
S30
S31
S32
S33
S34
S35

Pin Assignment

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CONNECTION	F1	F1	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18
PIN NO.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CONNECTION	S19	S20	S21	S22	S23	S24	S25	S26	S27	S28	S29	S30	S31	S32	S33	S34	S35	S36	S37	S38
PIN NO.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58		
CONNECTION	G16	G15	G14	G13	G12	G11	G10	G9	G8	G7	G6	G5	G4	G3	G2	G1	F2	F2		

F1,F2 : Filament
G1~G16 : Grid
S1~S38 : Anode

Anode & Grid Assignment

	G1	G2~G16		G1	G2~G16		G1	G2~G16		G1	G2~G16
S1	S1	S1	S10	S10	S10	S19	—	S19	S28	—	S28
S2	S2	S2	S11	S11	S11	S20	—	S20	S29	—	S29
S3	S3	S3	S12	S12	S12	S21	—	S21	S30	—	S30
S4	S4	S4	S13	S13	S13	S22	—	S22	S31	—	S31
S5	S5	S5	S14	S14	S14	S23	—	S23	S32	—	S32
S6	S6	S6	S15	S15	S15	S24	—	S24	S33	—	S33
S7	S7	S7	S16	—	S16	S25	—	S25	S34	—	S34
S8		S8	S17	DD DIGITAL	S17	S26	—	S26	S35	—	S35
S9	S9	S9	S18	DD PRO LOGIC	S18	S27	—	S27			

	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16
S36	DIGITAL	/	TV	VDP	/(DVD)	DVD	AUX	—	TUNER	CD	—	PHONO	REC	—	STEREO	TUNED
S37	ANALOG	–2	–1	TAPE	/(MD)	MD	V.MAX	—	–2	–1	—	VCR	MULTI	—	AUTO	RDS
S38	S38	DBS	—	—	—	—	—	—	–3	—	—	—	—	—	—	CH

Ref. No.	Part No.	Part Name	Remarks
C589	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C590	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C591~593	253 1181 904	Ceramic 0.01 μF/50V	CK45F1H103Z
C594	254 4256 790	Electrolytic 2200 μF/25V	CE04W1E222MC
C595	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C599	256 1058 971	Metalized 0.1 μF/50V	CF93A1H104J (JL)
C601	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C602	254 6211 005	Electrolytic 12000 μF/63V	CE68W1J123M(DL)
C603,604	256 1042 903	Metalized 0.1 μF/250V	CF93A2E104K
C605	254 6211 005	Electrolytic 12000 μF/63V	CE68W1J123M(DL)
C606~608	256 1042 903	Metalized 0.1 μF/250V	CF93A2E104K
C609~612	255 1265 936	Mylar film 0.01 μF/50V	CQ93M1H103J(B)
C613~616	Note	Note	
C617,618	Note	Note	
C631,632	Note	Note	
C646	254 4262 784	Electrolytic 470 μF/63V	CE04W1J471MC
C648	253 8014 702	Ceramic 0.01 μF/400V(AC)	CK45F2GAC103MC
C649	Note	Note	

OTHER PARTS				Q'ty
AC501	Note	Note		1
CW121	205 1125 026	12P Connector socket		1
CX021	Note	Note		
CX022	205 0581 001	2P VH Connector base		1
CX023	Note	Note		
CX024	205 1119 029	2P Connector base(35328)		1
CX031	205 1126 038	3P Connector base		1
CX032	Note	Note		
CX033	205 0653 036	3P Connector base(35328)		1
CX041	205 0343 045	4P Connector base (KR-PH)		1
CX054~057	205 1122 058	5P Connector base		4
CX074	205 1122 074	7P Connector base		1
CX085	205 0884 096	8P Connector base		1
CX092	205 0884 038	9P Connector base		1
CX960~969	205 1064 064	6P Pin header		10
⚠ F001	Note	Note		1
⚠ F008	Note	Note		1
FF501,502	202 0040 909	Fuse clip		2
FH501,502	202 0040 909	Fuse clip		2
JK451~453	204 8581 000	3P Pin jack (NI-COM.V)		3
JK601	205 0472 013	8P SP Terminal (EAEK)		1
JK603	205 1108 001	6P SP Terminal (E3)		1
RL501	214 0200 001	Relay (EC2-12N35)		1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
RL502~505	214 0195 006	Relay FTR-F1		4
RL506	214 0188 000	Relay VS-12MBNR-SM2(TV-8)		1
⚠ T501	Note	Note		1
TP501~505	205 0190 036	3P NH Connector base		5
TP510	205 0190 036	3P NH Connector base		1
	Note	Fuse label		1
	Note	Fuse label		1

1U-3199 EXT.IN UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC101	262 2549 002	IC LC75721E	
IC102	499 0290 007	IC GP1U271X	
IC103	262 2375 904	IC TC4094BF	
IC301	263 0896 909	IC NJM2068MD	
IC303,304	263 0896 909	IC NJM2068MD	
IC308~310	263 0896 909	IC NJM2068MD	
IC312	262 2667 007	IC TC9274N-***	
IC701	263 0896 909	IC NJM2068MD	
IC801~804	263 0896 909	IC NJM2068MD	
IC805~808	262 2662 002	IC TC9459N	
TR102~110	269 0082 902	Transistor DTC114EK	
TR111	269 0083 901	Transistor DTA114EK	
TR112	269 0055 900	Transistor DTA144EK	
TR113~115	269 0054 901	Transistor DTC144EK	
TR116,117	269 0055 900	Transistor DTA144EK	
TR130	269 0055 900	Transistor DTA144EK	
TR301~304	273 0414 906	Transistor 2SC3326(A/B)	
TR311~315	273 0414 906	Transistor 2SC3326(A/B)	
TR323~326	273 0414 906	Transistor 2SC3326(A/B)	
TR327,328	275 0094 908	Transistor 2SK209-GR	
TR329	269 0054 901	Transistor DTC144EK	
TR801~803	275 0094 908	Transistor 2SK209-GR	
TR805	269 0083 901	Transistor DTA114EK	
TR807	269 0054 901	Transistor DTC144EK	
D101,102	276 0637 902	Diode MTZJ6.2A	
D104	276 0644 937	Diode MTZJ9.1A	
D105	276 0637 902	Diode MTZJ6.2A	
D107	276 0637 902	Diode MTZJ6.2A	
D109	276 0432 903	Diode 1SS270A	
D110,111	276 0438 910	Diode MA151A	
D323,324	276 0432 903	Diode 1SS270A	
D801~803	276 0432 903	Diode 1SS270A	
LD104~110	393 9434 906	LED SEL1210S	
LD111,112	393 9452 904	LED SEL1410E	
RESISTORS GROUP			
R101	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R102~110	247 0007 903	Carbon chip 680 ohm 1/10W	RM73B--681J
R111	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R112	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R113	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201J
R114	247 0006 917	Carbon chip 300 ohm 1/10W	RM73B--301J
R115	247 0006 975	Carbon chip 510 ohm 1/10W	RM73B--511J
R116	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R117~119	247 0008 957	Carbon chip 3 kohm 1/10W	RM73B--302J
R124	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R125	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R126	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201J
R127	247 0006 917	Carbon chip 300 ohm 1/10W	RM73B--301J
R128	247 0006 975	Carbon chip 510 ohm 1/10W	RM73B--511J
R129	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R137,138	241 2387 940	Carbon film 4.7 ohm 1/4W(NB)	RD14B2E4R7JNBS
R139	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R140	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R141,142	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R153~155	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683J
R156,157	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R158,159	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683J
R160	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R162~170	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683J
R171	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R173,174	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683J
R175,176	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R177~181	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683J
R182	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R183~212	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683J
R213	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R301~304	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201J
R305~308	247 0011 902	Carbon chip 33 kohm 1/10W	RM73B--333J
R309,310	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R311,312	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R313,314	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R315,316	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R317,318	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R326	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R328,329	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R337~342	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201J
R343~346	247 0011 902	Carbon chip 33 kohm 1/10W	RM73B--333J
R347,348	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R349,350	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R352	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R354	247 0009 914	Carbon chip 5.1 kohm 1/10W	RM73B--512J
R355	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R357,358	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R359,360	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R361~364	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201J
R365,366	247 0007 990	Carbon chip 1.6 kohm 1/10W	RM73B--162J
R367~370	247 0011 902	Carbon chip 33 kohm 1/10W	RM73B--333J
R371,372	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R373,374	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R378,379	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K

Ref. No.	Part No.	Part Name	Remarks
R381,382	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R383,384	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R385,386	Note	Note	
R387,388	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R391,392	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R395~398	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R401,402	Note	Note	
R403,404	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R407,408	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R411~414	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R417,418	Note	Note	
R419,420	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R423,424	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R427~430	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R433~438	247 0011 928	Carbon chip 39 kohm 1/10W	RM73B--393J
R439,440	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R441,442	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R445	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R446,447	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B--332J
R448~450	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R451,452	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R453,454	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R455	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R456	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R458	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R459	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562J
R460	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R461	247 0009 930	Carbon chip 6.2 kohm 1/10W	RM73B--622J
R462	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R463	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R465,466	Note	Note	
R467,468	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R471,472	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R475~478	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R481,482	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R483	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R484~492	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R493~498	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R701,702	Note	Note	
R703,704	247 0006 946	Carbon chip 390 ohm 1/10W	RM73B--391J
R705,706	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683J
R707,708	247 0012 969	Carbon chip 150 kohm 1/10W	RM73B--154J
R709,710	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R711,712	247 0005 992	Carbon chip 240 ohm 1/10W	RM73B--241J
R713,714	247 0012 956	Carbon chip 130 kohm 1/10W	RM73B--134J
R715,716	247 0009 998	Carbon chip 11 kohm 1/10W	RM73B--113J
R717,718	247 0003 949	Carbon chip 22 ohm 1/10W	RM73B--220J
R719,720	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R721,722	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R723,724	Note	Note	

Ref. No.	Part No.	Part Name	Remarks
R725,726	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R729~732	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R801,802	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R803,804	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R805,806	247 0007 916	Carbon chip 750 ohm 1/10W	RM73B--751J
R807,808	247 0009 943	Carbon chip 6.8 kohm 1/10W	RM73B--682J
R809,810	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R811,812	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R813,814	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R815~818	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R819,820	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R821,822	247 0007 916	Carbon chip 750 ohm 1/10W	RM73B--751J
R823	247 0009 943	Carbon chip 6.8 kohm 1/10W	RM73B--682J
R824	247 0009 969	Carbon chip 8.2 kohm 1/10W	RM73B--822J
R825	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R827,828	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R829	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R831~834	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R835,836	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R837,838	247 0007 916	Carbon chip 750 ohm 1/10W	RM73B--751J
R839,840	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R841,842	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R843~846	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R847,848	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R849,850	247 0007 916	Carbon chip 750 ohm 1/10W	RM73B--751J
R851,852	247 0008 999	Carbon chip 4.3 kohm 1/10W	RM73B--432J
R853,854	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R855,856	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R857	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R858	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R859~866	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R867~869	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R871,872	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
CAPACITORS GROUP			
C102	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C103	254 4299 906	Electrolytic 10 µF/16V	CE04W1C100M(SRE)
C104	254 4305 968	Electrolytic 1 µF/50V	CE04W1H010M(SRE)
C107	256 1058 971	Metalized 0.1 µF/50V	CF93A1H104J (JL)
C109	254 4196 999	Electrolytic 22 µF/50V	CE04W1H220M (SRA)
C110~113	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C115	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C116	254 4300 989	Electrolytic 330 µF/6.3V	CE04W0J331M(SRE)
C117	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C120	257 0003 933	Ceramic chip 30 pF/50V	CC73SL1H300J
C121	254 4299 906	Electrolytic 10 µF/16V	CE04W1C100M(SRE)
C122	257 0012 982	Ceramic chip 0.022 µF/50V	CK73F1H223Z
C126	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C301,302	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C307,308	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3

Ref. No.	Part No.	Part Name	Remarks
C309	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C311,312	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C321,322	Note	Note	
C323,324	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C325,326	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C327,328	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C331~334	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C335,336	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C337,338	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C341,342	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C343,344	Note	Note	
C355,356	Note	Note	
C367,368	Note	Note	
C379~382	256 1058 955	Metalized 0.068 μF/50V	CF93A1H683J (JL)
C385,386	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C387,388	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C389,390	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C395,396	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C397,398	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C399,400	257 0012 966	Ceramic chip 0.01 μF/50V	CK73F1H103Z
C401,402	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C403	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C405	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C407	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C408	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C409	257 0014 935	Ceramic chip 0.1 μF/25V	CK73F1E104Z
C417	257 0014 935	Ceramic chip 0.1 μF/25V	CK73F1E104Z
C415,416	257 0014 935	Ceramic chip 0.1 μF/25V	CK73F1E104Z
C459~461	254 4524 901	Electrolytic 0.1 μF/50V	CE04W1H0R1M SMG/RE3
C462,463	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C703,704	257 0005 944	Ceramic chip 220 pF/50V	CC73SL1H221J
C705,706	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C707,708	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C709,710	254 4533 934	Electrolytic 220 μF/6.3V	CE04W0J221M SMG/RE3
C711,712	255 4199 999	Polypropylene film 0.024 μF/50V	CQ92M1H243J(MRZ)
C713,714	255 1265 907	Mylar film 6800 pF/50V	CQ93M1H682J(B)
C715,716	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C717,718	257 0012 982	Ceramic chip 0.022 μF/50V	CK73F1H223Z
C719,720	Note	Note	
C725,726	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
C729,730	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C741	257 0014 935	Ceramic chip 0.1 μF/25V	CK73F1E104Z
C742	257 0014 935	Ceramic chip 0.1 μF/25V	CK73F1E104Z
C801,802	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C803,804	257 0003 988	Ceramic chip 47 pF/50V	CC73SL1H470J
C807,808	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C809,810	255 1265 923	Mylar film 8200 pF/50V	CQ93M1H822J(B)
C811,812	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C813,814	257 0012 982	Ceramic chip 0.022 μF/50V	CK73F1H223Z
C815,816	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C817,818	257 0003 988	Ceramic chip 47 pF/50V	CC73SL1H470J
C821,822	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C823	255 1265 923	Mylar film 8200 pF/50V	CQ93M1H822J(B)
C825,826	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C827,828	257 0012 982	Ceramic chip 0.022 μF/50V	CK73F1H223Z
C829,830	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C831,832	257 0003 988	Ceramic chip 47 pF/50V	CC73SL1H470J
C835,836	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C837,838	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C839,840	257 0012 982	Ceramic chip 0.022 μF/50V	CK73F1H223Z
C841,842	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C843,844	257 0003 988	Ceramic chip 47 pF/50V	CC73SL1H470J
C847,848	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C849,850	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C851,852	257 0012 982	Ceramic chip 0.022 μF/50V	CK73F1H223Z
C860	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C861~868	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C869~871	254 4524 969	Electrolytic 3.3 μF/50V	CE04W1H3R3M SMG/RE3
C873,874	254 4524 969	Electrolytic 3.3 μF/50V	CE04W1H3R3M SMG/RE3

OTHER PARTS				Q'ty
CW052	205 1124 056	5P Connector socket		1
CW063	205 1124 069	6P Connector socket		1
CW079	205 1124 072	7P Connector socket		1
CW083	205 1124 085	8P Connector socket		1
CW091	205 1124 098	9P Connector socket		1
CW101	205 1000 002	10P FJ Connector plug		1
CW112	205 1125 013	11P Connector socket		1
CW123	205 1125 026	12P Connector socket		1
CW161,162	205 1055 028	16P Connector base (TKC-V)		2
CX932	205 1121 033	3P Connector base-L(5268)		1
CY021	Note	Note		1
FB101	235 0049 900	Beads inductor		1
FB401	235 0106 908	Chip emifil (21A05)		1
FB704	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K	1
FL101	393 8033 007	FLD (CM1690C)		1
JK301	204 8513 010	6P Pin jack (S-GND)		1
JK303	204 8513 010	6P Pin jack (S-GND)		1
L301~304	235 0049 900	Beads inductor		4
L701,702	Note	Note		2
S101~110	212 5609 902	Tact switch		10
S112	212 5609 902	Tact switch		1
S113	212 0373 000	Rotary encorder EC16B		1
S114	212 0419 003	Rotary encorder		1
S115	212 5609 902	Tact switch		1
S901	Note	Note		1
	414 0799 109	Shield plate		1
	203 0525 029	1P SIN Cord ass'y	L=210	1

1U-3200 CONTROL UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC102	262 2616 003	IC TC9184AP	
IC103,104	263 0896 909	IC NJM2068MD	
IC301	Note	Note	
IC302	Note	Note	
IC303	262 2702 108	IC TMP88CU74F-****	
IC304	262 2375 904	IC TC4094BF	
IC701~703	269 0178 007	IC GP1F37R1	
IC704	262 1205 907	IC TC74HCU04AF	
IC705	262 2213 901	IC TC74HC151AF	
IC951	263 0892 903	IC NJM2082M	
IC952	263 0896 909	IC NJM2068MD	
TR301	274 0163 904	Transistor 2SD601A	
TR302	271 0291 903	Transistor 2SA1182Y/O	
TR303	269 0054 901	Transistor DTC144EK	
TR304	269 0082 902	Transistor DTC114EK	
TR305	269 0055 900	Transistor DTA144EK	
TR306	269 0054 901	Transistor DTC144EK	
TR307	269 0083 901	Transistor DTA114EK	
TR308,309	269 0054 901	Transistor DTC144EK	
TR901	271 0131 924	Transistor 2SA988(E/F)	
TR902	273 0445 001	Transistor 2SC4495	
TR903	273 0429 904	Transistor 2SC3311A	
TR904,905	271 0131 924	Transistor 2SA988(E/F)	
TR906~910	269 0083 901	Transistor DTA114EK	
TR911	271 0131 924	Transistor 2SA988(E/F)	
TR912	269 0083 901	Transistor DTA114EK	
TR950~952	269 0082 902	Transistor DTC114EK	
TR953	269 0083 901	Transistor DTA114EK	
TR954,955	269 0082 902	Transistor DTC114EK	
D301	Note	Note	
D302	276 0432 903	Diode 1SS270A	
D303	276 0634 905	Diode MTZJ3.3A	
D304	276 0432 903	Diode 1SS270A	
D305,306	276 0553 905	Diode 1SR35-200A	
D701	276 0432 903	Diode 1SS270A	
D901~912	276 0432 903	Diode 1SS270A	
D913	276 0553 905	Diode 1SR35-200A	
D914	276 0645 978	Diode MTZJ36A	
D915	276 0553 905	Diode 1SR35-200A	
D916	276 0643 996	Diode MTZJ5.6A	
D917	276 0553 905	Diode 1SR35-200A	
D950,951	276 0553 905	Diode 1SR35-200A	

Ref. No.	Part No.	Part Name	Remarks
RESISTORS GROUP			
R101,102	247 0008 928	Carbon chip 2.2 kohm 1/10W	RM73B--222J
R103,104	247 0006 946	Carbon chip 390 ohm 1/10W	RM73B--391J
R105,106	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474J
R107,108	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R109,110	247 0012 901	Carbon chip 82 kohm 1/10W	RM73B--823J
R111,112	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R113	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474J
R114,115	247 0011 928	Carbon chip 39 kohm 1/10W	RM73B--393J
R116	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474J
R117,118	247 0014 909	Carbon chip 560 kohm 1/10W	RM73B--564J
R119,120	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R121,122	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562J
R123,124	247 0010 987	Carbon chip 27 kohm 1/10W	RM73B--273J
R125,126	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R127,128	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R129~132	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R135,136	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R141~143	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R145,146	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R303	Note	Note	
R304~307	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R308	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R310,311	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R312	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R313	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R314	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R315	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R316	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R318	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R320	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R324~326	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R327	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R329	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R330	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R331	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R333,334	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R335	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R340~342	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R343,344	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R345	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R346	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R347,348	Note	Note	Note
R349	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R350	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R351~353	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R354	247 0013 900	Carbon chip 220 kohm 1/10W	RM73B--224J
R355	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R356	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R357~360	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R361,362	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J

Ref. No.	Part No.	Part Name	Remarks
R363~365	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R366	Note	Note	
R368	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R372,373	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R374	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R375	241 2387 940	Carbon film 4.7 ohm 1/4W(NB)	RD14B2E4R7JNBS
R376	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R377	Note	Note	
R378~383	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R384	Note	Note	
R701~703	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R705~707	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R708	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B--750J
R709	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R710	247 0008 928	Carbon chip 2.2 kohm 1/10W	RM73B--222J
R711	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R712	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R801~806	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B--221J
R807~812	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R901	247 0008 928	Carbon chip 2.2 kohm 1/10W	RM73B--222J
R902	247 0008 957	Carbon chip 3 kohm 1/10W	RM73B--302J
R903,904	247 0008 928	Carbon chip 2.2 kohm 1/10W	RM73B--222J
R906	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R907	247 0014 909	Carbon chip 560 kohm 1/10W	RM73B--564J
R908	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R909	247 0005 992	Carbon chip 240 ohm 1/10W	RM73B--241J
R910	247 0008 928	Carbon chip 2.2 kohm 1/10W	RM73B--222J
R911	247 0010 961	Carbon chip 22 kohm 1/10W	RM73B--223J
R912	247 0008 973	Carbon chip 3.6 kohm 1/10W	RM73B--362J
R913	247 0014 909	Carbon chip 560 kohm 1/10W	RM73B--564J
R914	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474J
R915	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R916	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R917	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474J
R918	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R919	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R920	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474J
R921	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R922	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R923	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474J
R924	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R925	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R926	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474J
R927	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R928	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R929	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474J
R930	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R931	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R932	241 2387 940	Carbon film 4.7 ohm 1/4W(NB)	RD14B2E4R7JNBS

Ref. No.	Part No.	Part Name	Remarks
R933	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R934	244 2055 996	Metal oxide 1.2 kohm 1W	RS14B3A122JNBS(S)
R939,940	244 2055 996	Metal oxide 1.2 kohm 1W	RS14B3A122JNBS(S)
R941,942	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R943,944	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B--221J
R950~956	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R957,958	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R959,960	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R961,962	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R963,964	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R965	247 0013 900	Carbon chip 220 kohm 1/10W	RM73B--224J
R966	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R967,968	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R970	247 0002 966	Carbon chip 10 ohm 1/10W	RM73B--100J
R971	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
CAPACITORS GROUP			
C101,102	254 4524 956	Electrolytic 2.2 μF/50V	CE04W1H2R2M SMG/RE3
C103,104	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C105,106	254 4524 969	Electrolytic 3.3 μF/50V	CE04W1H3R3M SMG/RE3
C107,108	256 1058 942	Metalized 0.056 μF/50V	CF93A1H563J (JL)
C109,110	255 1265 907	Mylar film 6800 pF/50V	CQ93M1H682J(B)
C111,112	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C113,114	255 1265 949	Mylar film 0.012 μF/50V	CQ93M1H123J(B)
C115,116	255 1264 953	Mylar film 2700 pF/50V	CQ93M1H272J(B)
C117,118	254 4524 972	Electrolytic 4.7 μF/50V	CE04W1H4R7M SMG/RE3
C119,120	255 1265 978	Mylar film 0.022 μF/50V	CQ93M1H223J(B)
C121,122	254 4524 972	Electrolytic 4.7 μF/50V	CE04W1H4R7M SMG/RE3
C123,124	257 0014 935	Ceramic chip 0.1 μF/25V	CK73F1E104Z
C304	Note	Note	
C305	Note	Note	
C308	Note	Note	
C309	Note	Note	
C310	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C311	Note	Note	
C312	Note	Note	
C314	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C315	Note	Note	
C316	Note	Note	
C317	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C321	Note	Note	
C322	Note	Note	
C323	Note	Note	
C324	Note	Note	
C325	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C327	Note	Note	
C333	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K

Ref. No.	Part No.	Part Name	Remarks
C339	254 4536 957	Electrolytic 470 µF/10V	CE04W1A471MT SMG/RE3
C340	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C341	254 4538 939	Electrolytic 47 µF/16V	CE04W1C470M SMG/RE3
C342	257 0010 984	Ceramic chip 0.047 µF/50V	CK73B1H473K
C348	254 4538 939	Electrolytic 47 µF/16V	CE04W1C470M SMG/RE3
C349	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C350	256 1058 984	Metalized 0.12 µF/50V	CF93A1H124J (JL)
C352	254 4304 927	Electrolytic 4.7 µF/35V	CE04W1V4R7M(SRE)
C353	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C354	254 4300 963	Electrolytic 100 µF/6.3V	CE04W0J101M(SRE)
C355	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C356	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C357	259 0007 702	Back up cap. 8200 µF/5.5V	SB CAP==822=C
C358	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C359	254 4533 934	Electrolytic 220 µF/6.3V	CE04W0J221M SMG/RE3
C367	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C368	Note	Note	
C376	Note	Note	
C377	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C379	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C382	Note	Note	
C384	Note	Note	
C386	Note	Note	
C389	Note	Note	
C390	Note	Note	
C391	Note	Note	
C393	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C394~396	Note	Note	
C701~704	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C705~707	254 4538 939	Electrolytic 47 µF/16V	CE04W1C470M SMG/RE3
C709	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C710	254 4524 969	Electrolytic 3.3 µF/50V	CE04W1H3R3M SMG/RE3
C714	257 0003 904	Ceramic chip 22 pF/50V	CC73SL1H220J
C715,716	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C717	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C718,719	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C720	Note	Note	
C857	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C858	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C901	253 1181 904	Ceramic 0.01 µF/50V	CK45F1H103Z
C902	254 4524 956	Electrolytic 2.2 µF/50V	CE04W1H2R2M SMG/RE3
C903	253 1181 904	Ceramic 0.01 µF/50V	CK45F1H103Z
C909	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C911	254 4527 908	Electrolytic 0.1 µF/100V	CE04W2A0R1M SMG/RE3
C912	254 4524 985	Electrolytic 10 µF/50V	CE04W1H100M SMG/RE3
C913~918	254 4524 901	Electrolytic 0.1 µF/50V	CE04W1H0R1M SMG/RE3
C919	254 4522 958	Electrolytic 100 µF/35V	CE04W1V101M SMG/RE3
C952,953	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C954,955	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C956	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C957~960	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C961	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C962	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C981	Note	Note	
C983	Note	Note	
C984	Note	Note	

OTHER PARTS				Q'ty
CW064	205 1124 069	6P Connector socket		1
CW066	205 1124 069	6P Connector socket		1
CW085	205 0885 095	8P Connector socket		1
CW092	205 0885 037	9P Connector socket		1
CW116	205 0885 066	11P Connector socket		1
CW124	205 0885 079	12P Connector socket		1
CW156	205 1125 055	15P Connector socket		1
CX051,052	205 1122 058	5P Connector base		2
CX061~063	205 1122 061	6P Connector base		3
CX064,065	205 1122 061	6P Connector base		2
CX066	205 1122 061	6P Connector base		1
CX071,072	205 0943 021	7P Connector base		2
CX073	205 1000 015	7P FJ Connector plug		1
CX075,076	205 1000 015	7P FJ Connector plug		2
CX079	205 1122 074	7P Connector base		1
CX081~083	205 1122 087	8P Connector base		3
CX091	205 1122 090	9P Connector base		1
CX111,112	205 1123 015	11P Connector base		2
CX116,117	205 1123 015	11P Connector base		2
CX121~123	205 1123 028	12P Connector base		3
CX124	205 0884 070	12P Connector base		1
CX141	205 1123 044	14P Connector base		1
CX151	205 1123 057	15P Connector base		1
CX161,162	205 1056 027	16P Connector socket TKC-V		2
CY036	Note	Note		1
CY401	205 1126 041	4P Connector base		1
FB302	235 0049 900	Beads inductor		1
FB304,305	235 0049 900	Beads inductor		2
FB306	235 0049 900	Beads inductor		1
FB704~706	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0KT	3
JK501	Note	Note		1
JK801	204 8540 009	4P Pin jack		1
JK901	204 8540 009	4P Pin jack		1
JK701	204 8551 014	1P Pin jack (OR)		1
L303	235 0070 908	Inductor 120mH		1
L308	235 0131 902	Chip emifil (BLM21B272S)		1
L313~315	235 0131 902	Chip emifil (BLM21B272S)		3

Ref. No.	Part No.	Part Name	Remarks	Q'ty
L317	235 0049 900	Beads inductor		1
L318	231 0083 003	Low volt line filter		1
L319	235 0131 902	Chip emifil (BLM21B272S)		1
L702	235 0060 918	Inductor 4.7mH		1
L703	235 0060 905	Inductor 2.2mH		1
L704,705	235 0060 918	Inductor 4.7mH		2
RL901	214 0200 001	Relay (EC2-12N35)		1
W708,709	205 1034 010	M3 Screw teaminal		2
X301	Note	Note		1
XL301	Note	Note		1
XL302	399 0532 902	Crystal CST12.5MTW		1
	203 0525 029	1P SIN Cord ass'y	L=210	1
	203 0463 000	1P SIN Connector ass'y	L=280	1

1U-3201 REGULATOR UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC501	Note	Note	
IC502	263 0891 001	IC LA1265(S)	
IC503	263 0439 007	IC LA3401	
IC507	262 2450 900	IC LC72131M	
IC902,903	263 0809 006	IC NJM7805FA(S)	
IC904	263 0793 002	IC NJM7806FA(S)	
IC905,906	263 0801 004	IC NJM7812FA(S)	
IC907	263 0641 002	IC NJM7912FA	
TR501	Note	Note	
TR502	273 0411 909	Transistor 2SC2996-Y	
TR503,504	269 0083 901	Transistor DTA114EK	
TR505	269 0114 906	Transistor RN2402	
TR508	269 0054 901	Transistor DTC144EK	
TR509,510	269 0066 902	Transistor DTC323TK	
TR511	269 0086 908	Transistor DTA114TK	
TR801~814	273 0253 918	Transistor 2SC2878(A/B)	
TR815~818	271 0094 919	Transistor 2SA970(BL)	
TR819,820	273 0281 906	Transistor 2SC2705 (O)/(Y)	
TR821,822	273 0253 918	Transistor 2SC2878(A/B)	
TR823~826	271 0094 919	Transistor 2SA970(BL)	
TR827,828	273 0281 906	Transistor 2SC2705 (O)/(Y)	
TR829	273 0253 918	Transistor 2SC2878(A/B)	
TR830,831	271 0094 919	Transistor 2SA970(BL)	
TR832	273 0281 906	Transistor 2SC2705 (O)/(Y)	
TR911	269 0082 902	Transistor DTC114EK	
TR913~915	273 0253 918	Transistor 2SC2878(A/B)	
TR916	273 0253 918	Transistor 2SC2878(A/B)	
TR918~920	271 0262 000	Transistor 2SA1670(O/P/Y)	
TR921	274 0158 003	Transistor 2SD1763A(D)	
TR922	269 0082 902	Transistor DTC114EK	
TR924	272 0115 008	Transistor 2SB1186A(D)	
TR926	275 0042 905	Transistor 2SK373(Y)	
TR927	269 0082 902	Transistor DTC114EK	
D501	276 0432 903	Diode 1SS270A	
D503~505	276 0432 903	Diode 1SS270A	
D911~913	276 0432 903	Diode 1SS270A	
D914,915	276 0553 905	Diode 1SR35-200A	
D916	276 0305 001	Diode S4VB20	
D918,919	276 0553 905	Diode 1SR35-200A	
D922	276 0305 001	Diode S4VB20	
D923	276 0553 905	Diode 1SR35-200A	
ZD502	276 0644 937	Zener diode MTZJ9.1A	

Ref. No.	Part No.	Part Name	Remarks
ZD901	276 0644 966	Zener diode MTZJ12A	
ZD917,918	276 0637 902	Zener diode MTZJ6.2A	
PT901	279 0034 054	Posistor PTH9M04BC222TS2F333	
PT902	279 0034 012	Posistor PTH9M04BG222TS2F333	
RESISTORS GROUP			
R501	247 0002 966	Carbon chip 10 ohm 1/10W	RM73B--100J
R502	Note	Note	
R503	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R504~512	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R514	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R515	Note	Note	
R516	Note	Note	
R517	Note	Note	
R518	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B--221J
R519	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R520	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R521	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R522	247 0006 920	Carbon chip 330 ohm 1/10W	RM73B--331J
R523	247 0007 961	Carbon chip 1.2 kohm 1/10W	RM73B--122J
R524	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R525	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R526	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562J
R527~529	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R531,532	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R533	Note	Note	
R534	247 0005 921	Carbon chip 120 ohm 1/10W	RM73B--121J
R535	Note	Note	
R536	Note	Note	
R537	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683J
R538	247 0009 943	Carbon chip 6.8 kohm 1/10W	RM73B--682J
R539	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562J
R540,541	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R542,543	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B--332J
R544,545	Note	Note	
R546	247 0011 928	Carbon chip 39 kohm 1/10W	RM73B--393J
R547	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R548	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R549	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R550	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562J
R551	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R553,554	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B--332J
R555,556	Note	Note	
R569	Note	Note	
R570	Note	Note	
R571~574	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R575,576	Note	Note	
R577	247 0010 961	Carbon chip 22 kohm 1/10W	RM73B--223J
R578	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R579~581	Note	Note	

Ref. No.	Part No.	Part Name	Remarks Q'ty
R582	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R595	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R713,714	244 2052 960	Metal oxide 220 ohm 1W	RS14B3A221JNBS(S)
R861,862	241 2376 964	Carbon film 47 ohm 1/4W(NB)	RD14B2E470JNBS
R887,888	241 2376 964	Carbon film 47 ohm 1/4W(NB)	RD14B2E470JNBS
R901	241 2376 964	Carbon film 47 ohm 1/4W(NB)	RD14B2E470JNBS
R911	247 0006 917	Carbon chip 300 ohm 1/10W	RM73B--301J
R912,913	247 0006 975	Carbon chip 510 ohm 1/10W	RM73B--511J
R914	247 0007 903	Carbon chip 680 ohm 1/10W	RM73B--681J
R917	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201J
R941,942	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R943,944	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R949~951	241 2376 919	Carbon film 30 ohm 1/4W(NB)	RD14B2E300JNBS
R958,959	241 2376 964	Carbon film 47 ohm 1/4W(NB)	RD14B2E470JNBS
R963	241 2375 907	Carbon film 10 ohm 1/4W(NB)	RD14B2E100JNBS
VR501	211 6132 925	Semi fixed resistor 10 kohm	V06PB103
VR502	211 6132 983	Semi fixed resistor 100 kohm	V06PB104
CAPACITORS GROUP			
C501,502	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C503~505	257 0010 900	Ceramic chip 0.01 µF/50V	CK73B1H103K
C507,508	257 0010 900	Ceramic chip 0.01 µF/50V	CK73B1H103K
C509	257 0002 947	Ceramic chip 12 pF/50V	CC73SL1H120J
C510	257 0010 900	Ceramic chip 0.01 µF/50V	CK73B1H103K
C511	254 4538 939	Electrolytic 47 µF/16V	CE04W1C470M SMG/RE3
C512	257 0010 900	Ceramic chip 0.01 µF/50V	CK73B1H103K
C513	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C514	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C515	254 4538 939	Electrolytic 47 µF/16V	CE04W1C470M SMG/RE3
C516,517	257 0010 900	Ceramic chip 0.01 µF/50V	CK73B1H103K
C518	257 0010 984	Ceramic chip 0.047 µF/50V	CK73B1H473K
C519	Note	Note	
C520	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C521~523	257 0010 900	Ceramic chip 0.01 µF/50V	CK73B1H103K
C524	254 4524 930	Electrolytic 47 µF/50V	CE04W1HR47M SMG/RE3
C525	254 4524 985	Electrolytic 10 µF/50V	CE04W1H100M SMG/RE3
C526	257 0010 942	Ceramic chip 0.022 µF/50V	CK73B1H223K
C527	Note	Note	
C528	254 4538 939	Electrolytic 47 µF/16V	CE04W1C470M SMG/RE3
C529	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C530	254 4524 914	Electrolytic 0.22 µF/50V	CE04W1HR22M SMG/RE3
C531	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C532	257 0010 900	Ceramic chip 0.01 µF/50V	CK73B1H103K
C533	256 1058 939	Metalized 0.047 µF/50V	CF93A1H473J (JL)
C535	254 3053 910	Electrolytic 22 µF/16V	CE04D1C220MBP
C536	Note	Note	

Ref. No.	Part No.	Part Name	Remarks
C537	Note	Note	
C538	254 4538 913	Electrolytic 22 μF/16V	CE04W1C220M SMG/RE3
C539,540	Note	Note	
C541	254 4524 956	Electrolytic 2.2 μF/50V	CE04W1H2R2M SMG/RE3
C544	257 0010 900	Ceramic chip 0.01 μF/50V	CK73B1H103K
C545,546	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C557,558	257 0002 963	Ceramic chip 15 pF/50V	CC73SL1H150J
C559	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C561	257 0012 966	Ceramic chip 0.01 μF/50V	CK73F1H103Z
C562	257 0014 935	Ceramic chip 0.1 μF/25V	CK73F1E104Z
C570	254 4538 900	Electrolytic 10 μF/16V	CE04W1C100M SMG/RE3
C571	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C574	254 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C575	257 0012 966	Ceramic chip 0.01 μF/50V	CK73F1H103Z
C721,722	255 1264 908	Mylar film 1000 pF/50V	CQ93M1H102J(B)
C723	253 9039 906	Ceramic 0.1 μF/25V	CK45=1E104Z
C813~826	254 4538 913	Electrolytic 22 μF/16V	CE04W1C220M SMG/RE3
C829,830	254 4524 985	Electrolytic 10 μF/50V	CE04W1H100M SMG/RE3
C831,832	253 1179 945	Ceramic 220 pF/50V	CK45B1H221K
C835,836	254 4538 939	Electrolytic 47 μF/16V	CE04W1C470M SMG/RE3
C837,838	255 1264 966	Mylar film 3300 pF/50V	CQ93M1H332J(B)
C839,840	253 4482 901	Ceramic 33 pF/500V	CC45SL2H330J
C841,842	254 4538 913	Electrolytic 22 μF/16V	CE04W1C220M SMG/RE3
C845,846	254 4524 985	Electrolytic 10 μF/50V	CE04W1H100M SMG/RE3
C847,848	253 1179 945	Ceramic 220 pF/50V	CK45B1H221K
C851,852	254 4538 939	Electrolytic 47 μF/16V	CE04W1C470M SMG/RE3
C853,854	255 1264 966	Mylar film 3300 pF/50V	CQ93M1H332J(B)
C855,856	253 4482 901	Ceramic 33 pF/500V	CC45SL2H330J
C859	254 4524 985	Electrolytic 10 μF/50V	CE04W1H100M SMG/RE3
C860	254 4538 913	Electrolytic 22 μF/16V	CE04W1C220M SMG/RE3
C862	254 4524 985	Electrolytic 10 μF/50V	CE04W1H100M SMG/RE3
C863	253 1179 945	Ceramic 220 pF/50V	CK45B1H221K
C864	253 1179 945	Ceramic 220 pF/50V	CK45B1H221K
C865	254 4538 939	Electrolytic 47 μF/16V	CE04W1C470M SMG/RE3
C866	255 1264 966	Mylar film 3300 pF/50V	CQ93M1H332J(B)
C867	253 4482 901	Ceramic 33 pF/500V	CC45SL2H330J
C914	253 1181 904	Ceramic 0.01 μF/50V	CK45F1H103Z
C915	253 1181 904	Ceramic 0.01 μF/50V	CK45F1H103Z
C929~932	254 4538 913	Electrolytic 22 μF/16V	CE04W1C220M SMG/RE3
C937	254 4538 939	Electrolytic 47 μF/16V	CE04W1C470M SMG/RE3
C938	253 9039 906	Ceramic 0.1 μF/25V	CK45=1E104Z
C939~944	253 1181 904	Ceramic 0.01 μF/50V	CK45F1H103Z
C945~950	254 4541 939	Electrolytic 47 μF/25V	CE04W1E470M SMG/RE3
C951,952	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C954~956	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C957,958	254 4406 702	Electrolytic 3300 μF/16V	CE04W1C332MC(SMG)
C959	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C960,961	253 1181 904	Ceramic 0.01 μF/50V	CK45F1H103Z
C962	254 4403 747	Electrolytic 10000 μF/25V	CE04W1E103MC(SMG)

Ref. No.	Part No.	Part Name	Remarks
C963	254 4257 702	Electrolytic 3300 μF/25V	CE04W1E332MC
C965~968	256 1058 971	Metalized 0.1 μF/50V	CF93A1H104J (JL)
C969,970	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C975,976	254 4524 943	Electrolytic 1 μF/50V	CE04W1H010M SMG/RE3
C977,978	254 4524 985	Electrolytic 10 μF/50V	CE04W1H100M SMG/RE3
C979	254 4524 985	Electrolytic 10 μF/50V	CE04W1H100M SMG/RE3

OTHER PARTS				Q'ty
CF501	Note	Note		1
CF502	Note	Note		1
CF503	261 0079 005	Ceramic resonator CSB456F11		1
CF504	261 0031 001	Ceramic filter BFU450C4		1
CF505	261 0116 007	Ceramic filter SFU450B3		1
CW054~057	205 1124 056	5P Connector socket		4
CW065	205 1124 069	6P Connector socket		1
CW073	205 1081 018	7P FJ Connector base		1
CW074	205 1124 072	7P Connector socket		1
CW075,076	205 1081 018	7P FJ Conenctor base		2
CW081	205 1124 085	8P Connector socket		1
CW117	205 1125 013	11P Connector socket		1
CW122	205 1125 026	12P Connector socket		1
CW151	205 1125 055	15P Connector socket		1
CX021,022	205 0185 025	2P Wire holder		2
CX034	205 1121 033	3P Connector base-L(5268)		1
CX037~039	205 1126 038	3P Connector base(53014)		3
CX087	205 1121 088	8P Connector base(5268)		1
CX101	205 1081 005	10P FJ Connector base		1
CX156	205 1123 057	15P Connector base		1
CY031	205 1126 038	3P Connector base(53014)		1
CY037	205 1126 038	3P Connector base(53014)		1
CY038,039	205 1127 037	3P Connector base-L(53015)		2
TP102	205 0190 036	3P NH Connector base		1
⚠F011~013	Note	Note		3
⚠F014	Note	Note		1
FB501	235 0049 900	Beads inductor		1
FF901~904	202 0040 909	Fuse clip		4
FH901~904	202 0040 909	Fuse clip		4
JK501	205 0847 004	3P antenna terminal (PAL/F)		1
JK702	204 8580 001	Headphone jack		1
L301	235 0060 963	Inductor 15$$$H		1
L504	235 0060 905	Inductor 2.2$$$H		1

1U-3215 AUDIO/DSP UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	Q'ty
LF501	Note	Note		1
LF503,504	Note	Note		2
S501	Note	Note		1
S901	212 0373 000	Rotary encorder EC16B		1
S902~905	212 5609 902	Tact switch		4
SW901	212 0420 005	1P Push switch (NON LOCK)		1
T501	231 2096 001	MW ant.-osc. coil		1
T502	231 2085 009	FM DET trans.		1
T503	231 1138 009	AM IFT		1
TP101	205 0190 036	3P NH Connector base		1
W075	205 1034 010	M3 Screw terminal		1
XL503	399 0075 003	Crystal 7.2 MHz		1
	513 2585 045	Fuse label		3
	513 2585 074	Fuse label		1

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC106	263 0896 909	IC NJM2068MD	
IC107	262 2545 006	IC TC9274N-011	
IC108	262 2033 000	IC TC9273N-004	
IC109	263 0896 909	IC NJM2068MD	
IC112	263 0896 909	IC NJM2068MD	
IC301	262 2615 004	IC TMP93CS41F	
IC302	262 2682 901	IC SN74LV573ANS-EL2	
IC303	262 2710 006	IC W29EE011P-90 (33)	
IC401	262 2673 004	IC ADSST-21061LKS-176	
IC402	262 2630 005	IC MSM32R0050-521GS	
IC403	262 2703 000	IC TC58FVT800FT-12 (33)	
IC404,405	262 2611 008	IC TC55V1664BFT-12	
IC406	262 2671 909	IC HG-8002JA44MHZPCCX	
IC407,408	262 2519 906	IC SN74LV00APW-EL2	
IC409	262 2518 907	IC SN74LV74APW-EL2	
IC410	262 2504 908	IC TC74VHC02FT	
IC411	262 2606 903	IC SN74AHCT573PW	
IC412	262 2682 901	IC SN74LV573ANS-EL2	
IC413	262 2520 908	IC TC74VHC541FT	
IC414	262 2503 909	IC TC74VHCT541AFT	
IC415,416	262 2685 908	IC SN74AHCT1G08DBV	
IC417,418	262 2685 908	IC SN74AHCT1G08DBV	
IC419,420	262 2685 908	IC SN74AHCT1G08DBV	
IC507	Note	Note	
IC510	262 2386 906	IC SN74HC151NS	
IC511	Note	Note	
IC512	Note	Note	
IC516	Note	Note	
IC517	262 2608 901	IC TC74VHC123AF	
IC523	262 2608 901	IC TC74VHC123AF	
IC524	262 2519 906	IC SN74LV00APW-EL2	
IC525	262 2609 900	IC SN74AHC157PW	
IC527	262 2426 905	IC AK5351-VF	
IC528	399 0515 000	IC SG-8002DCPT(12.288M)	
IC529	262 2519 906	IC SN74LV00APW-EL2	
IC530	262 2557 900	IC SN74LV14APW-EL2	
IC531	262 2675 002	IC LC89055W(ES4)	
IC532	262 2557 900	IC SN74LV14APW-EL2	
IC601	263 1048 002	IC BA033T	
IC651,652	263 0934 900	IC BA4510F-E2	
IC701~703	262 2674 906	IC AD1855JRSRL	
IC731~733	263 0896 909	IC NJM2068MD	
TR305	269 0082 902	Transistor DTC114EK	
TR501	Note	Note	

Ref. No.	Part No.	Part Name	Remarks
TR502	Note	Note	
TR503,504	Note	Note	
TR505	Note	Note	
TR506	Note	Note	
TR701	269 0083 901	Transistor DTA114EK	
TR702	269 0082 902	Transistor DTC114EK	
TR703~712	269 0083 901	Transistor DTA114EK	
D501	Note	Note	
D502	Note	Note	
D701~703	276 0438 949	Diode MA151WK	
RESISTORS GROUP			
R101,102	Note	Note	
R103,104	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R107~110	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R113,114	Note	Note	
R115,116	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R119~122	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R125,126	Note	Note	RM73B--101J
R127,128	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R131~134	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R137,138	Note	Note	
R139,140	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R143~146	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R149,150	Note	Note	
R151,152	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R155~158	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R161,162	Note	Note	
R163~166	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R167,168	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R169,170	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R171,172	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R173,174	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R175,176	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R177,178	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R179,180	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R181,182	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R183,184	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R185,186	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R187~190	247 0012 998	Carbon chip 200 kohm 1/10W	RM73B--204J
R191,192	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R195,196	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R197~200	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R201,202	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R203~206	247 0012 998	Carbon chip 200 kohm 1/10W	RM73B--204J
R207,208	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R209,210	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J

Ref. No.	Part No.	Part Name	Remarks
R211,212	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R213~222	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R223,224	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R225~232	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R235,236	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R237~246	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0K
R249~258	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0K
R301,302	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R303	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R304	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R305,306	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R307	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R308	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R309	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R311,312	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R313	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R314~327	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R328	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R332	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0K
R334	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R335,336	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R337	247 2011 942	Carbon chip 47 kohm 1/16W	RM73B--473J
R338	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R340	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R341	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R342	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R345,346	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R348~351	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R401	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R402,403	247 2009 983	Carbon chip 16 kohm 1/16W	RM73B--103J
R404~407	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0K
R408~411	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103J
R412	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R413	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103J
R414~430	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R431	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0K
R432~434	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R435	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470J
R437~440	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R442~450	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R453	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R454	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103J
R455~460	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R462~464	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R466,467	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R469	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103J
R470~472	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R473,474	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103J
R475~480	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J
R482,483	247 2003 989	Carbon chip 33 ohm 1/16W	RM73B--330J

Ref. No.	Part No.	Part Name	Remarks
R484,485	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470J
R486	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R488	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470J
R489	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R491~495	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470J
R497,498	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103J
R501~506	Note	Note	
R512~528	Note	Note	
R529	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R530~533	Note	Note	
R535~589	Note	Note	
R591~594	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R595	247 0014 967	Carbon chip 1 Mohm 1/10W	RM73B--105J
R596	247 0009 969	Carbon chip 8.2 kohm 1/10W	RM73B--822J
R597	247 0008 957	Carbon chip 3 kohm 1/10W	RM73B--302J
R598	247 0009 914	Carbon chip 5.1 kohm 1/10W	RM73B--512J
R599	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B--750J
R602	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R606	247 0011 902	Carbon chip 33 kohm 1/10W	RM73B--333J
R611	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R612	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470J
R613	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R614	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R621	Note	Note	
R622~624	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470J
R625	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R626	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R627	Note	Note	
R628, 629	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R630	Note	Note	
R631	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R651~654	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R655,656	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R657,658	247 0009 998	Carbon chip 11 kohm 1/10W	RM73B--113J
R659,660	247 0012 972	Carbon chip 100 kohm 1/10W	RM73B--104J
R661,662	247 0008 986	Carbon chip 3.9 kohm 1/10W	RM73B--392J
R663~666	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R667~670	247 0006 920	Carbon chip 330 ohm 1/10W	RM73B--331J
R671~673	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0K
R676	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470J
R677	247 2009 983	Carbon chip 10 kohm 1/16W	RM73B--103J
R678	247 2004 920	Carbon chip 47 ohm 1/16W	RM73B--470J
R679	247 2018 903	Carbon chip 0 ohm 1/16W	RM73B--0R0K
R705~707	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R708~710	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R711	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R713,714	247 0008 986	Carbon chip 3.9 kohm 1/10W	RM73B--392J
R715,716	247 0008 944	Carbon chip 2.7 kohm 1/10W	RM73B--272J
R717,718	247 0008 902	Carbon chip 1.8 kohm 1/10W	RM73B--182J

Ref. No.	Part No.	Part Name	Remarks
R719,720	247 0008 902	Carbon chip 1.8 kohm 1/10W	RM73B--182J
R721,722	247 0008 986	Carbon chip 3.9 kohm 1/10W	RM73B--392J
R723,724	247 0008 902	Carbon chip 1.8 kohm 1/10W	RM73B--182J
R731,732	247 0008 986	Carbon chip 3.9 kohm 1/10W	RM73B--392J
R733,734	247 0008 902	Carbon chip 1.8 kohm 1/10W	RM73B--182J
R735,736	247 0009 914	Carbon chip 5.1 kohm 1/10W	RM73B--512J
R739,740	247 0009 914	Carbon chip 5.1 kohm 1/10W	RM73B--512J
R741,742	247 0006 988	Carbon chip 560 ohm 1/10W	RM73B--561J
R743,744	247 0007 990	Carbon chip 1.6 kohm 1/10W	RM73B--162J
R745,746	247 0008 986	Carbon chip 3.9 kohm 1/10W	RM73B--392J
R747,748	247 0008 902	Carbon chip 1.8 kohm 1/10W	RM73B--182J
R749,750	247 0009 914	Carbon chip 5.1 kohm 1/10W	RM73B--512J
R753,754	247 0009 914	Carbon chip 5.1 kohm 1/10W	RM73B--512J
R755,756	247 0006 988	Carbon chip 560 ohm 1/10W	RM73B--561J
R757,758	247 0007 990	Carbon chip 1.6 kohm 1/10W	RM73B--162J
R759,760	247 0008 986	Carbon chip 3.9 kohm 1/10W	RM73B--392J
R761,762	247 0008 902	Carbon chip 1.8 kohm 1/10W	RM73B--182J
R763,764	247 0009 914	Carbon chip 5.1 kohm 1/10W	RM73B--512J
R767,768	247 0009 914	Carbon chip 5.1 kohm 1/10W	RM73B--512J
R769,770	247 0006 988	Carbon chip 560 ohm 1/10W	RM73B--561J
R771,772	247 0007 990	Carbon chip 1.6 kohm 1/10W	RM73B--162J
R773~781	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
CAPACITORS GROUP			
C101,102	Note	Note	
C113,114	Note	Note	
C123,124	Note	Note	
C135,136	Note	Note	
C145,146	Note	Note	
C157,158	Note	Note	
C159,160	254 4524 985	Electrolytic 10 µF/50V	CE04W1H100M SMG/RE3
C165,166	254 4524 985	Electrolytic 10 µF/50V	CE04W1H100M SMG/RE3
C167~172	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C173,174	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C177	256 1058 939	Metalized 0.047 µF/50V	CF93A1H473J (JL)
C178~182	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C183~186	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C188	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C189,190	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C193,194	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C195~198	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C201,202	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C301,302	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C305	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C306	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C307	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C308	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C309	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C311	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z

Ref. No.	Part No.	Part Name	Remarks
C401	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C402	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C403	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C404	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C405	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C406	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C407	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C408	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C409	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C410	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C411~414	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C415	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C416,417	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C418	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C419~421	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C422	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C423,424	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C425	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C426	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C427	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C428	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C429	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C430	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C431	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C432	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C433	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C434	254 4533 950	Electrolytic 470 µF/6.3V	CE04W0J471M SMG/RE3
C435	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C436,437	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C438,439	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C440	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C441,442	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C443	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C444	254 4533 921	Electrolytic 100 µF/6.3V	CE04W0J101M SMG/RE3
C445~448	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C454~457	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C509~522	Note	Note	
C525	Note	Note	
C526,527	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C528~540	Note	Note	
C543~549	Note	Note	
C551,552	Note	Note	
C554	Note	Note	
C555,556	Note	Note	
C557	Note	Note	
C562	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C563	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C564~567	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C568	257 0010 900	Ceramic chip 0.01 µF/50V	CK73B1H103K
C569	257 0011 996	Ceramic chip 0.1 µF/25V	CK73B1E104K
C570	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z

Ref. No.	Part No.	Part Name	Remarks
C572,573	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C576	257 0005 986	Ceramic chip 330 pF/50V	CC73SL1H331J
C581	254 4524 930	Electrolytic 47 µF/50V	CE04W1HR47M SMG/RE3
C584~589	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C594	254 4524 930	Electrolytic 0.47 µF/50V	CE04W1HR47M SMG/RE3
C595	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C596	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C597	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C598	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C599	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C600	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C601	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C602~604	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C605	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C606	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C607	254 4533 921	Electrolytic 100 µF/6.3V	CE04W0J101M SMG/RE3
C609	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C610	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C611	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C612~614	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C615	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C619	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C620,621	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C651,652	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C653~656	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C657,658	254 4538 942	Electrolytic 100 µF/16V	CE04W1C101M SMG/RE3
C659,660	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C661,662	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C663,664	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C665,666	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C667,668	257 0007 942	Ceramic chip 1500 pF/50V	CC73SL1H152J
C669	257 0011 909	Ceramic chip 0.01 µF/25V	CK73B1E103K
C670	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C701	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C703	257 0010 984	Ceramic chip 0.047 µF/25V	CK73B1H473K
C704	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C705,706	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C707~709	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C711	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C713	257 0010 984	Ceramic chip 0.047 µF/25V	CK73B1H473K
C714	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C715,716	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C717~719	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C721	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C723	257 0010 984	Ceramic chip 0.047 µF/25V	CK73B1H473K
C724	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C725,726	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C727~729	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C731,732	254 4538 926	Electrolytic 33 µF/16V	CE04W1C330M SMG/RE3
C733~736	257 0005 928	Ceramic chip 180 pF/50V	CC73SL1H181J

Ref. No.	Part No.	Part Name	Remarks
C737,738	255 1264 940	Mylar film 2200 pF/50V	CQ93M1H222J(B)
C741,742	254 4538 926	Electrolytic 33 µF/16V	CE04W1C330M SMG/RE3
C743~746	257 0005 928	Ceramic chip 180 pF/50V	CC73SL1H181J
C747,748	255 1264 940	Mylar film 2200 pF/50V	CQ93M1H222J(B)
C751,752	254 4538 926	Electrolytic 33 µF/16V	CE04W1C330M SMG/RE3
C753~756	257 0005 928	Ceramic chip 180 pF/50V	CC73SL1H181J
C757,758	255 1264 940	Mylar film 2200 pF/50V	CQ93M1H222J(B)
C761,762	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C763,764	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C767,768	254 4538 926	Electrolytic 33 µF/16V	CE04W1C330M SMG/RE3
C769,770	257 0006 943	Ceramic chip 560 pF/50V	CC73SL1H561J
C771,772	254 4538 926	Electrolytic 33 µF/16V	CE04W1C330M SMG/RE3
C773,774	257 0006 943	Ceramic chip 560 pF/50V	CC73SL1H561J
C775,776	254 4538 926	Electrolytic 33 µF/16V	CE04W1C330M SMG/RE3
C777~784	257 0006 943	Ceramic chip 560 pF/50V	CC73SL1H561J
C787~792	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3

OTHER PARTS				Q'ty
BF201	Note	Note		1
CX036	Note	Note		1
CX933	Note	Note		1
CW051	205 1124 056	5P Connector socket		1
CW061,062	205 1124 069	6P Connector socket		2
CW071,072	205 1124 072	7P Connector socket		2
CW082	205 1124 085	8P Connector socket		1
CW111	205 1124 098	11P Connector socket		1
CW141	205 1125 042	14P Connector socket		1
FB302~308	235 0106 908	Chip emifil (21A05)		7
FB309	235 0106 908	Chip emifil (21A05)		1
FB311	235 0106 908	Chip emifil (21A05)		1
FB403	235 0106 908	Chip emifil (21A05)		1
FB508	235 0106 908	Chip emifil (21A05)		1
FB509~511	235 0106 908	Chip emifil (21A05)		3
FB512,513	235 0049 900	Beads inductor		2
FB601,602	235 0049 900	Beads inductor		2
FB603~607	235 0049 900	Beads inductor		5
FB609,610	235 0049 900	Beads inductor		2
FB701,702	235 0049 900	Beads inductor		2
FB704	235 0049 900	Beads inductor		1
FB705~720	235 0049 900	Beads inductor		16
JK106~108	204 8513 010	6P Pin jack (S-GND)		3
L501~504	235 0106 908	Chip emifil (21A05)		4
L505	Note	Note		1
X302	399 0532 902	Ceramic 12.5MHz	CST12.5MTW	1
X501	Note	Note		1
	207 0020 005	IC Sokeet	IC403	1
	207 0021 004	IC Sokeet	IC303	1

1U-3223 VOLTAGE SELECT UNIT ASS'Y

(Asia model & Taiwan model only)

Ref. No.	Part No.	Part Name	Remarks	Q'ty
IC901	263 0554 005	IC NJM7905FA		
D901~904	276 0553 905	Diode 1SR35-200A		
C901	254 4261 772	Electrolytic 2200 µF/50V		
C902,903	253 1181 904	Ceramic chip 0.01 µF/50V		
C904	254 4524 985	Electrolytic 10 µF/50V		
CX935	205 0233 032	3P EH Connector base		1
CY022	205 0581 001	2P VH Connector base		1
CY032	205 0653 036	3P VH Connector base		1
CY042	205 0653 049	4P VH Connector base		1
CY933	205 0653 036	3P Connector base (35328)		1
⚠ F017	206 1083 006	Fuse (2.5A)		1
⚠ F901	206 1083 019	Fuse (3.15A)		1
FF017	202 0040 909	Fuse clip		1
FF901	202 0040 909	Fuse clip		1
FH017	202 0040 909	Fuse clip		1
FH901	202 0040 909	Fuse clip		1
S801	212 4810 006	Slide switch		1

1U-3244 VIDEO UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC301	263 0857 003	IC BA7626	
IC302	263 0856 004	IC BA7625	
IC304	262 2067 005	IC MC74HC4053N	
IC305	263 0682 003	IC NJM2229S	
IC308	262 2311 007	IC M35015-***SP	
IC371	262 1151 006	IC TC74HC4052AP	
IC375	262 1151 006	IC TC74HC4052AP	
IC376	263 0856 004	IC BA7625	
IC377	263 0857 003	IC BA7626	
IC401	262 1151 006	IC TC74HC4052AP	
IC402	263 0856 004	IC BA7625	
IC403	262 0522 005	IC TC4053BP	
IC450	263 0856 004	IC BA7625	
TR301~307	271 0290 904	Transistor 2PA1015GR	
TR309	271 0290 904	Transistor 2PA1015GR	
TR310	269 0082 902	Transistor DTC114EK	
TR311	273 0446 903	Transistor 2PC1815BL	
TR312,313	271 0290 904	Transistor 2PA1015GR	
TR401~404	271 0290 904	Transistor 2PA1015GR	
D302~309	276 0432 903	Diode 1SS270A	
D401~404	276 0432 903	Diode 1SS270A	
RESISTORS GROUP			
R301~308	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B--750J
R309~314	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R315~320	247 0004 964	Carbon chip 68 ohm 1/10W	RM73B--680J
R321,322	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B--750J
R323	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R324	247 0007 916	Carbon chip 750 ohm 1/10W	RM73B--751J
R325	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R328	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R329	247 0008 902	Carbon chip 1.8 kohm 1/10W	RM73B--182J
R330	247 0002 966	Carbon chip 10 ohm 1/10W	RM73B--100J
R331,332	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B--750J
R338	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R339	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R340	247 0013 984	Carbon chip 470 kohm 1/10W	RM73B--474J
R341	247 0011 902	Carbon chip 33 kohm 1/10W	RM73B--333J
R342,343	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201J
R344	247 0013 900	Carbon chip 220 kohm 1/10W	RM73B--224J
R345	247 0009 969	Carbon chip 8.2 kohm 1/10W	RM73B--822J
R346	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R349,350	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201J
R354~356	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201J
R357	247 0006 946	Carbon chip 390 ohm 1/10W	RM73B--391J
R358	247 0007 987	Carbon chip 1.5 kohm 1/10W	RM73B--152J
R359	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R360	247 0011 957	Carbon chip 51 kohm 1/10W	RM73B--513J

Ref. No.	Part No.	Part Name	Remarks
R361	247 0009 956	Carbon chip 7.5 kohm 1/10W	RM73B--752J
R362	247 0007 961	Carbon chip 1.2 kohm 1/10W	RM73B--122J
R363	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B--221J
R364	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R365	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R366	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R367	247 0009 969	Carbon chip 8.2 kohm 1/10W	RM73B--822J
R368	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R369	247 0009 969	Carbon chip 8.2 kohm 1/10W	RM73B--822J
R370	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R371	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R373	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201J
R374,375	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B--750J
R376	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B--750J
R377	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R378	247 0004 977	Carbon chip 75 ohm 1/10W	RM73B--750J
R380,381	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R382~388	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
CAPACITORS GROUP			
C301,302	254 4524 972	Electrolytic 4.7 µF/50V	CE04W1H4R7M SMG/RE3
C303,304	257 0012 982	Ceramic chip 0.022 µF/50V	CK73F1H223Z
C305,306	254 4524 972	Electrolytic 4.7 µF/50V	CE04W1H4R7M SMG/RE3
C310	254 4524 972	Electrolytic 4.7 µF/50V	CE04W1H4R7M SMG/RE3
C311	254 4533 934	Electrolytic 220 µF/6.3V	CE04W0J221M SMG/RE3
C312	254 4533 950	Electrolytic 470 µF/6.3V	CE04W0J471M SMG/RE3
C313	254 4533 934	Electrolytic 220 µF/6.3V	CE04W0J221M SMG/RE3
C314	254 4533 950	Electrolytic 470 µF/6.3V	CE04W0J471M SMG/RE3
C315	254 4533 934	Electrolytic 220 µF/6.3V	CE04W0J221M SMG/RE3
C316	254 4533 950	Electrolytic 470 µF/6.3V	CE04W0J471M SMG/RE3
C317,318	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C320	257 0012 982	Ceramic chip 0.022 µF/50V	CK73F1H223Z
C321	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C323	254 4536 928	Electrolytic 100 µF/10V	CE04W1A101M SMG/RE3
C324	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C327~329	257 0003 946	Ceramic chip 33 pF/50V	CC73SL1H330J
C330	257 0010 900	Ceramic chip 0.01 µF/50V	CK73B1H103K
C331	257 0002 921	Ceramic chip 10 pF/50V	CC73SL1H100D
C332	257 0002 947	Ceramic chip 12 pF/50V	CC73SL1H120J
C333	255 1265 978	Mylar film 0.022 µF/50V	CQ93M1H223J(B)
C334	254 4524 972	Electrolytic 4.7 µF/50V	CE04W1H4R7M SMG/RE3
C335	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C336	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C337	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C338	255 1264 908	Mylar film 1000 pF/50V	CQ93M1H102J(B)
C339	254 4536 928	Electrolytic 100 µF/10V	CE04W1A101M SMG/RE3
C340	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C341	255 1264 911	Mylar film 1200 pF/50V	CQ93M1H122J(B)
C342	257 0005 902	Ceramic chip 150 pF/50V	CC73SL1H151J
C343	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3

Ref. No.	Part No.	Part Name	Remarks
C344	256 1058 955	Metalized 0.068 µF/50V	CF93A1H683J (JL)
C345	257 0008 941	Ceramic chip 470 pF/50V	CK73B1H471K
C346	257 0009 940	Ceramic chip 3300 pF/50V	CK73B1H332K
C347	254 4538 900	Electrolytic 10 µF/16V	CE04W1C100M SMG/RE3
C348	254 4538 942	Electrolytic 100 µF/16V	CE04W1C101M SMG/RE3
C349,350	254 4536 928	Electrolytic 100 µF/10V	CE04W1A101M SMG/RE3
C351	254 4538 942	Electrolytic 100 µF/16V	CE04W1C101M SMG/RE3
C352,353	256 1058 939	Metalized 0.047 µF/50V	CF93A1H473J (JL)
C354	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C355	256 1058 939	Metalized 0.047 µF/50V	CF93A1H473J (JL)
C356	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C357~361	254 4524 972	Electrolytic 4.7 µF/50V	CE04W1H4R7M SMG/RE3
C362	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C363~366	253 1180 921	Ceramic chip 1000 pF/50V	CK45B1H102K
C375~384	254 4524 972	Electrolytic 4.7 µF/50V	CE04W1H4R7M SMG/RE3
C385	257 0012 982	Ceramic chip 0.022 µF/50V	CK73F1H223Z
C386,387	254 4524 943	Electrolytic 1 µF/50V	CE04W1H010M SMG/RE3
C388,389	257 0012 982	Ceramic chip 0.022 µF/50V	CK73F1H223Z
C401~405	254 4306 909	Electrolytic 4.7 µF/50V	CE04W1H4R7M(SRE)
C406~408	254 4300 989	Electrolytic 330 µF/6.3V	CE04W0J331M(SRE)
C410	254 4302 974	Electrolytic 100 µF/10V	CE04W1A101M(SRE)
C411,412	254 4299 906	Electrolytic 10 µF/16V	CE04W1C100M(SRE)
C413	254 4305 968	Electrolytic 1 µF/50V	CE04W1H010M(SRE)
C414	253 1181 917	Ceramic 0.022 µF/50V	CK45F1H223Z
C415	254 4299 906	Electrolytic 10 µF/16V	CE04W1C100M(SRE)
C416	254 4302 974	Electrolytic 100 µF/10V	CE04W1A101M(SRE)
C417	253 1181 904	Ceramic 0.01 µF/50V	CK45F1H103Z
C418,419	254 4299 906	Electrolytic 10 µF/16V	CE04W1C100M(SRE)
C420,421	253 1181 904	Ceramic 0.01 µF/50V	CK45F1H103Z
C422	253 1181 917	Ceramic 0.022 µF/50V	CK45F1H223Z
C423	254 4299 906	Electrolytic 10 µF/16V	CE04W1C100M(SRE)
C450,451	254 4306 909	Electrolytic 4.7 µF/50V	CE04W1H4R7M(SRE)
C452	254 4305 968	Electrolytic 1 µF/50V	CE04W1H010M(SRE)
C453	253 1181 917	Ceramic 0.022 µF/50V	CK45F1H223Z
C454	254 4299 906	Electrolytic 10 µF/16V	CE04W1C100M(SRE)
C455~457	254 4306 909	Electrolytic 4.7 µF/50V	CE04W1H4R7M(SRE)

OTHER PARTS				Q'ty
FB304~306	235 0049 900	Beads inductor		3
FB355~357	235 0049 900	Beads inductor		3
JK301	204 8415 011	3P S-Terminal		1
JK302,303	204 8414 012	2P S-Terminal		2
JK304	205 0902 004	1P S-Terminal (SW)		1
JK401	204 8516 017	3P Pin jack		1
JK402	204 8583 008	2P Pin jack (VIDEO)		1
JK403	204 8516 017	3P Pin jack		1
XL301	399 0153 006	Crystal 14.32MHZ-12PF		1
XL302	399 0105 009	Ceramic resonator CSB503F2		1
CW081	205 1124 085	8P Connector socket		1
CW121,122	205 1125 026	12P Connector socket		2

ADDENDUM PARTS LIST OF P.W.B. UNIT ASS'Y

1U-3198 POWER UNIT ASS'Y

Ref. No.	EUROPE MODEL		ASIA MODEL		TAIWAN MODEL		U.S.A./CANADA MODELS	
	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
R734	—	—	—	—	—	—	242 2009 001	Composition 2.2 Mohm 1/2W
C525,526	256 1058 939	Metalized 0.047 µF/50V	256 1058 939	Metalized 0.047 µF/50V	256 1058 939	Metalized 0.047 µF/50V	255 1265 978	Mylar film 0.022 µF/50V
C617,618	256 1058 939	Metalized 0.047 µF/50V	256 1058 939	Metalized 0.047 µF/50V	256 1058 939	Metalized 0.047 µF/50V	255 1265 978	Mylar film 0.022 µF/50V
C553,554	256 1058 939	Metalized 0.047 µF/50V	256 1058 939	Metalized 0.047 µF/50V	256 1058 939	Metalized 0.047 µF/50V	255 1265 978	Mylar film 0.022 µF/50V
C572	256 1058 939	Metalized 0.047 µF/50V	256 1058 939	Metalized 0.047 µF/50V	256 1058 939	Metalized 0.047 µF/50V	255 1265 978	Mylar film 0.022 µF/50V
C613~616	255 1265 936	Mylar film 0.01 µF/50V	255 1265 936	Mylar film 0.01 µF/50V	255 1265 936	Mylar film 0.01 µF/50V	—	—
C631,632	255 1265 936	Mylar film 0.01 µF/50V	255 1265 936	Mylar film 0.01 µF/50V	255 1265 936	Mylar film 0.01 µF/50V	—	—
C649	255 1265 936	Mylar film 0.01 µF/50V	255 1265 936	Mylar film 0.01 µF/50V	255 1265 936	Mylar film 0.01 µF/50V	—	—
CX021	205 0581 001	2P VH Connector base	205 0581 001	2P VH Connector base	205 0581 001	2P VH Connector base	—	—
CX023	205 0581 001	2P VH Connector base	205 0581 001	2P VH Connector base	205 0581 001	2P VH Connector base	—	—
CX032	—	—	205 0653 036	3P VH Connector base	205 0653 036	3P VH Connector base	—	—
⚠ F001	206 1083 019	Fuse (3.15A)	206 1083 035	Fuse (6.3V)	206 1083 035	Fuse (6.3V)	206 1046 043	Fuse 10A
⚠ F008	206 1083 006	Fuse (2.5A)	206 1083 006	Fuse (2.5A)	206 1083 006	Fuse (2.5A)	206 1046 014	Fuse 8A
T501	233 6058 025	Power trans (mini)	233 6278 009	Power trans (mini)	233 6278 009	Power trans (mini)	233 6073 000	Power trans (mini)
AC501	—	—	—	—	—	—	203 3976 002	AC Outlet (2P)
	513 2585 045	Fuse label	513 2654 057	Fuse label	513 2654 057	Fuse label	—	—
	513 2585 074	Fuse label	513 2585 074	Fuse label	513 2585 074	Fuse label	—	—

1U-3199 EXT. IN UNIT ASS'Y

Ref. No.	EUROPE MODEL		ASIA MODEL		TAIWAN MODEL		U.S.A./CANADA MODELS	
	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
R385,386	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W
R401,402	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W
R417,418	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W
R465,466	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W
R701,702	247 0007 974	Carbon chip 1.3 kohm 1/10W	247 0007 974	Carbon chip 1.3 kohm 1/10W	247 0007 974	Carbon chip 1.3 kohm 1/10W	247 0018 905	Carbon chip 0 ohm 1/10W
R723,724	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W
C321,322	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	—	—
C343,344	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	—	—
C355,356	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	—	—
C367,368	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	—	—
C719,720	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	—	—
CY021	205 0581 001	2P VH Connector base	205 0581 001	2P VH Connector base	205 0581 001	2P VH Connector base	—	—
L701,702	235 9003 002	FTZ choke coil	235 9003 002	FTZ choke coil	235 9003 002	FTZ choke coil	—	—
S901	212 1030 009	Power switch (TV-5)	212 1030 009	Power switch (TV-5)	212 1030 009	Power switch (TV-5)	—	—

1U-3200 CONTROL P.W.B. UNIT ASS'Y

Ref. No.	EUROPE MODEL		ASIA MODEL		TAIWAN MODEL		U.S.A./CANADA MODELS	
	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
IC301	262 1701 906	IC SAA6579T	—	—	—	—	—	—
IC302	262 1929 908	IC LC7074M-R	—	—	—	—	—	—
D301	276 0432 903	Diode 1SS270A	—	—	—	—	—	—
R303	247 0018 905	Carbon chip 0 ohm 1/10W	—	—	—	—	—	—
R347	247 0018 905	Carbon chip 0 ohm 1/10W	247 0007 945	Carbon chip 1 kohm 1/10W	247 0007 945	Carbon chip 1 kohm 1/10W		
R348	—	—	247 0009 914	Carbon chip 5.1 kohm 1/10W	247 0009 914	Carbon chip 5.1 kohm 1/10W	247 0018 905	Carbon chip 0 ohm 1/10W
R366	—	—	247 0018 905	Carbon chip 0 ohm 1/10W	247 0018 905	Carbon chip 0 ohm 1/10W	—	—
R377	247 0009 985	Carbon chip 10 kohm 1/10W	—	—	—	—	—	—
R384	—	—	247 0007 974	Carbon chip 1.3 kohm 1/10W	247 0007 974	Carbon chip 1.3 kohm 1/10W	—	—
C304	257 0003 946	Ceramic chip 33 pF/50V	—	—	—	—	—	—
C305	257 0010 984	Ceramic chip 0.047 μF/50V	257 0010 984	Ceramic chip 0.047 μF/50V	257 0010 984	Ceramic chip 0.047 μF/50V	257 0008 983	Ceramic chip 1000 pF/50V
C308	254 4260 951	Electrolytic 2.2 μF/50V	—	—	—	—	—	—
C309	—	—	—	—	—	—	257 0008 983	Ceramic chip 1000 pF/50V
C311	257 0003 946	Ceramic chip 33 pF/50V	—	—	—	—	—	—
C312	257 0012 966	Ceramic chip 0.01 μF/50V	—	—	—	—	—	—
C315	—	—	—	—	—	—	257 0008 983	Ceramic chip 1000 pF/50V
C316	254 4538 900	Electrolytic 10 μF/16V	—	—	—	—	—	—
C321	257 0006 943	Ceramic chip 560 pF/50V	—	—	—	—	—	—
C322	—	—	—	—	—	—	257 0008 983	Ceramic chip 1000 pF/50V
C323	254 4538 900	Electrolytic 10 μF/16V	—	—	—	—	—	—
C324	—	—	—	—	—	—	257 0008 983	Ceramic chip 1000 pF/50V
C327	—	—	257 0008 983	Ceramic chip 1000 pF/50V	257 0008 983	Ceramic chip 1000 pF/50V	257 0008 983	Ceramic chip 1000 pF/50V
C368	—	—	—	—	—	—	257 0008 983	Ceramic chip 1000 pF/50V
C376	—	—	—	—	—	—	257 0008 983	Ceramic chip 1000 pF/50V
C382	—	—	—	—	—	—	257 0008 983	Ceramic chip 1000 pF/50V
C384	—	—	—	—	—	—	257 0008 983	Ceramic chip 1000 pF/50V
C386	—	—	—	—	—	—	257 0008 983	Ceramic chip 1000 pF/50V
C389	—	—	—	—	—	—	257 0012 982	Ceramic chip 0.022 μF/50V
C390	—	—	—	—	—	—	256 1058 971	Metalized 0.1 μF/50V
C391	—	—	—	—	—	—	257 0008 983	Ceramic chip 1000 pF/50V
C394~396	257 0008 983	Ceramic chip 1000 pF/50V	257 0008 983	Ceramic chip 1000 pF/50V	257 0008 983	Ceramic chip 1000 pF/50V	—	—
C720	—	—	257 0014 935	Ceramic chip 0.1 μF/25V	257 0014 935	Ceramic chip 0.1 μF/25V	—	—
C981	—	—	257 0008 983	Ceramic chip 1000 pF/50V	257 0008 983	Ceramic chip 1000 pF/50V	—	—
C983	257 0008 983	Ceramic chip 1000 pF/50V	—	—	—	—	257 0008 983	Ceramic chip 1000 pF/50V
C984	257 0008 983	Ceramic chip 1000 pF/50V	—	—	—	—	—	—
CY036	—	—	205 1127 037	3P Connector base-L (53015)	205 1127 037	3P Connector base-L (53015)	—	—
JK501	—	—	204 8551 027	1P Pin jack (BK)	204 8551 027	1P Pin jack (BK)	—	—
X301	399 0178 007	Crystal 4.332 MHz	—	—	—	—	—	—
XL301	399 0191 903	Ceramic 4.00 MHz	—	—	—	—	—	—

1U-3201 REGULATOR P.W.B. UNIT ASS'Y

Ref. No.	EUROPE MODEL		ASIA MODEL		TAIWAN MODEL		U.S.A./CANADA MODELS	
	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
IC501	216 9013 004	FM FRONT END (U) S	216 0102 008	FRONT END	216 0102 008	FRONT END	216 0102 008	FRONT END
TR501	275 0074 902	Transistor 2SK211-Y/GR	—	—	—	—	—	—
R502	247 0018 905	Carbon chip 0 ohm 1/10W	—	—	—	—	—	—
R515	—	—	247 0005 905	Carbon chip 100 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W
R516	247 0006 920	Carbon chip 330 ohm 1/10W	247 0007 945	Carbon chip 1 kohm 1/10W	247 0007 945	Carbon chip 1 kohm 1/10W	247 0007 945	Carbon chip 1 kohm 1/10W
R517	247 0006 920	Carbon chip 330 ohm 1/10W	—	—	—	—	—	—
R533	247 0009 901	Carbon chip 4.7 kohm 1/10W	247 0009 901	Carbon chip 4.7 kohm 1/10W	247 0009 901	Carbon chip 4.7 kohm 1/10W	247 0008 999	Carbon chip 4.3 kohm 1/10W
R535	247 0010 990	Carbon chip 30 kohm 1/10W	247 0010 990	Carbon chip 30 kohm 1/10W	247 0010 990	Carbon chip 30 kohm 1/10W	247 0010 945	Carbon chip 18 kohm 1/10W
R536	247 0008 944	Carbon chip 2.7 kohm 1/10W	247 0018 905	Carbon chip 0 kohm 1/10W	247 0018 905	Carbon chip 0 kohm 1/10W	247 0018 905	Carbon chip 0 ohm 1/10W
R544,545	247 0012 969	Carbon chip 150 kohm 1/10W	247 0012 927	Carbon chip 100 kohm 1/10W	247 0012 927	Carbon chip 100 kohm 1/10W	247 0012 927	Carbon chip 100 kohm 1/10W
R555,556	247 0008 960	Carbon chip 3.3 kohm 1/10W	247 0009 927	Carbon chip 5.6 kohm 1/10W	247 0009 927	Carbon chip 5.6 kohm 1/10W	247 0009 927	Carbon chip 5.6 kohm 1/10W
R569	247 0009 927	Carbon chip 5.6 kohm 1/10W	—	—	—	—	—	—
R570	247 0009 985	Carbon chip 10 kohm 1/10W	—	—	—	—	—	—
R575,576	247 0012 998	Carbon chip 200 kohm 1/10W	247 0012 943	Carbon chip 120 kohm 1/10W	247 0012 943	Carbon chip 120 kohm 1/10W	247 0012 943	Carbon chip 120 kohm 1/10W
R579	—	—	247 0018 905	Carbon chip 0 kohm 1/10W	247 0018 905	Carbon chip 0 kohm 1/10W	247 0018 905	Carbon chip 0 kohm 1/10W
R580,581	—	—	247 0018 905	Carbon chip 0 kohm 1/10W	247 0018 905	Carbon chip 0 kohm 1/10W	247 0018 905	Carbon chip 0 kohm 1/10W
R855,856	241 2397 943	Carbon film 330 ohm 1/4W	241 2397 943	Carbon film 330 ohm 1/4W	241 2397 943	Carbon film 330 ohm 1/4W	241 2397 971	Carbon film 470 ohm 1/4W
R881,882	241 2397 943	Carbon film 330 ohm 1/4W	241 2397 943	Carbon film 330 ohm 1/4W	241 2397 943	Carbon film 330 ohm 1/4W	241 2397 971	Carbon film 470 ohm 1/4W
R898	241 2397 943	Carbon film 330 ohm 1/4W	241 2397 943	Carbon film 330 ohm 1/4W	241 2397 943	Carbon film 330 ohm 1/4W	241 2397 971	Carbon film 470 ohm 1/4W
C519	—	—	257 0004 961	Ceramic chip 100 pF/50V	257 0004 961	Ceramic chip 100 pF/50V	—	—
C527	254 4260 922	Electrolytic 0.33 µF/50V	254 4260 922	Electrolytic 0.33 µF/50V	254 4260 922	Electrolytic 0.33 µF/50V	254 4524 943	Electrolytic 1 µF/50V
C536	—	—	257 0004 961	Ceramic chip 100 pF/50V	257 0004 961	Ceramic chip 100 pF/50V	257 0004 961	Ceramic chip 100 pF/50V
C537	254 4538 913	Electrolytic 22 µF/16V	—	—	—	—	—	—
C539,540	257 0005 973	Ceramic chip 300 pF/50V	257 0006 930	Ceramic chip 510 pF/50V	257 0006 930	Ceramic chip 510 pF/50V	257 0006 972	Ceramic chip 750 pF/50V
CF501	267 0146 006	Ceramic filter FMCFSK107MS-A	261 0135 907	Ceramic filter MA8	261 0135 907	Ceramic filter MA8	261 0135 907	Ceramic filter MA8
CF502	261 0146 006	Ceramic filter FMCFSK107MS-A	261 0136 906	Ceramic filter MS2G	261 0136 906	Ceramic filter MS2G	261 0136 906	Ceramic filter MS2G
⚠ F011-013	206 1083 019	Fuse (3.15A)	206 1083 019	Fuse (3.15A)	206 1083 019	Fuse (3.15A)	206 1082 010	Fuse 3.15A
⚠ F014	2026 1083 006	Fuse (2.5A)	206 1083 006	Fuse (2.5A)	206 1083 006	Fuse (2.5A)	206 1082 007	Fuse 2.5A
LF501	232 9010 009	Antibirdie filter	—	—	—	—	—	—
LF503,504	232 0085 004	Low pass filter	—	—	—	—	—	—
S501	—	—	212 0408 001	Slide switch	212 0408 001	Slide switch	—	—

1U-3215 AUDIO/DSP P.W.B. UNIT ASS'Y

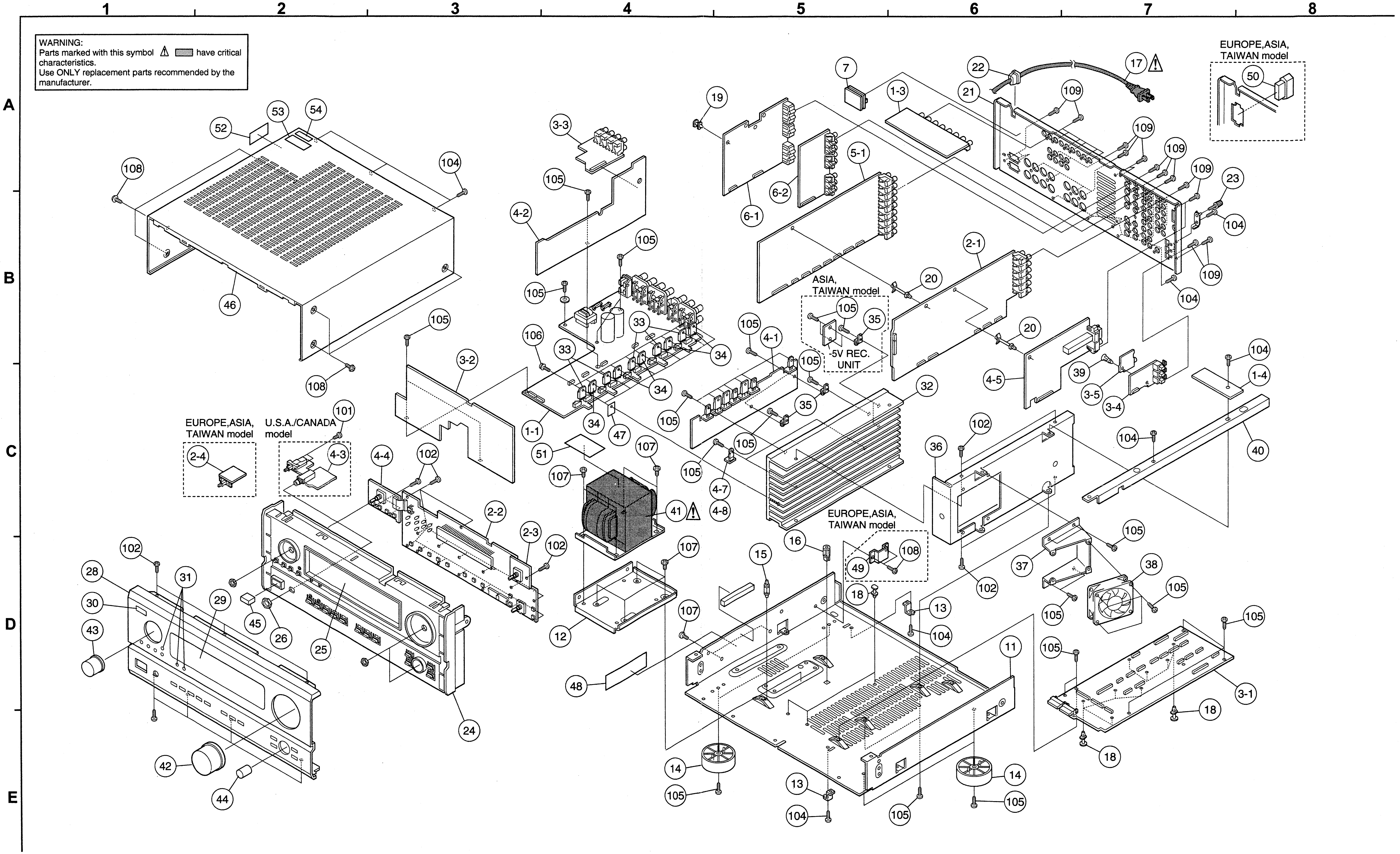
Ref. No.	EUROPE MODEL		ASIA MODEL		TAIWAN MODEL		U.S.A./CANADA MODELS	
	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
IC507	—	—	263 1018 003	IC MC14577CP	263 1018 003	IC MC14577CP	—	—
IC511	—	—	263 0687 901	IC BA4560F-E2	263 0687 901	IC BA4560F-E2	—	—
IC512	—	—	262 2372 004	IC PM4007A262 2372 004	IC PM4007A	—	—	
IC516	—	—	262 2371 908	IC BR62256F-70LL	262 2371 908	IC BR62256F-70LL	—	—
TR501	—	—	274 0163 904	Transistor 2SD601A	274 0163 904	Transistor 2SD601A	—	—
TR502	—	—	271 0238 908	Transistor 2SA1037K(S/R)	271 0238 908	Transistor 2SA1037K(S/R)	—	—
TR503,504	—	—	274 0163 904	Transistor 2SD601A	274 0163 904	Transistor 2SD601A	—	—
TR505	—	—	272 0125 904	Transistor 2SB709A	272 0125 904	Transistor 2SB709A	—	—
TR506	—	—	273 0384 900	Transistor 2SC2412K	273 0384 900	Transistor 2SC2412K	—	—
D501	—	—	276 0438 910	Diode MA151A	276 0438 910	Diode MA151A	—	—
D502	—	—	276 0663 905	Diode KV1851	276 0663 905	Diode KV1851	—	—
R101,102	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W
R113,114	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W
R125,126	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W
R137,138	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W
R149,150	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W
R161,162	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0006 962	Carbon chip 470 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W
R501	—	—	247 0007 945	Carbon chip 1 kohm 1/10W	247 0007 945	Carbon chip 1 kohm 1/10W	—	—
R502	—	—	247 0006 988	Carbon chip 560 ohm 1/10W	247 0006 988	Carbon chip 560 ohm 1/10W	—	—
R503	—	—	247 0004 993	Carbon chip 91 ohm 1/10W	247 0004 993	Carbon chip 91 ohm 1/10W	—	—
R504~506	—	—	247 0007 945	Carbon chip 1 kohm 1/10W	247 0007 945	Carbon chip 1 kohm 1/10W	—	—
R512	—	—	247 0007 945	Carbon chip 1 kohm 1/10W	247 0007 945	Carbon chip 1 kohm 1/10W	—	—
R513	—	—	247 0009 985	Carbon chip 10 kohm 1/10W	247 0009 985	Carbon chip 10 kohm 1/10W	—	—
R514,515	—	—	247 0007 945	Carbon chip 1 kohm 1/10W	247 0007 945	Carbon chip 1 kohm 1/10W	—	—
R516	—	—	247 0009 901	Carbon chip 4.7 kohm 1/10W	247 0009 901	Carbon chip 4.7 kohm 1/10W	—	—
R517	—	—	247 0008 902	Carbon chip 1.8 kohm 1/10W	247 0008 902	Carbon chip 1.8 kohm 1/10W	—	—
R518	—	—	247 0007 945	Carbon chip 1 kohm 1/10W	247 0007 945	Carbon chip 1 kohm 1/10W	—	—
R519	—	—	247 0005 947	Carbon chip 150 ohm 1/10W	247 0005 947	Carbon chip 150 ohm 1/10W	—	—
R520	—	—	247 0009 901	Carbon chip 4.7 kohm 1/10W	247 0009 901	Carbon chip 4.7 kohm 1/10W	—	—
R521,522	—	—	247 0009 985	Carbon chip 10 kohm 1/10W	247 0009 985	Carbon chip 10 kohm 1/10W	—	—
R523	—	—	247 0007 945	Carbon chip 1 kohm 1/10W	247 0007 945	Carbon chip 1 kohm 1/10W	—	—
R524	—	—	247 0008 928	Carbon chip 2.2 kohm 1/10W	247 0008 928	Carbon chip 2.2 kohm 1/10W	—	—
R525	—	—	247 0007 945	Carbon chip 1 kohm 1/10W	247 0007 945	Carbon chip 1 kohm 1/10W	—	—
R526	—	—	247 0008 960	Carbon chip 3.3 kohm 1/10W	247 0008 960	Carbon chip 3.3 kohm 1/10W	—	—
R527	—	—	247 0009 901	Carbon chip 4.7 kohm 1/10W	247 0009 901	Carbon chip 4.7 kohm 1/10W	—	—
R528	—	—	247 0007 945	Carbon chip 1 kohm 1/10W	247 0007 945	Carbon chip 1 kohm 1/10W	—	—
R530	—	—	247 0009 901	Carbon chip 4.7 kohm 1/10W	247 0009 901	Carbon chip 4.7 kohm 1/10W	—	—
R531	—	—	247 0008 986	Carbon chip 3.9 kohm 1/10W	247 0008 986	Carbon chip 3.9 kohm 1/10W	—	—
R532,533	—	—	247 2009 983	Carbon chip 10 kohm 1/16W	247 2009 983	Carbon chip 10 kohm 1/16W	—	—
R535~537	—	—	247 2009 983	Carbon chip 10 kohm 1/16W	247 2009 983	Carbon chip 10 kohm 1/16W	—	—
R538	—	—	247 0012 927	Carbon chip 100 kohm 1/10W	247 0012 927	Carbon chip 100 kohm 1/10W	—	—
R539	—	—	247 0009 969	Carbon chip 8.2 kohm 1/10W	247 0009 969	Carbon chip 8.2 kohm 1/10W	—	—
R540	—	—	247 2009 983	Carbon chip 10 kohm 1/16W	247 2009 983	Carbon chip 10 kohm 1/16W	—	—
R541	—	—	247 2009 983	Carbon chip 10 kohm 1/16W	247 2009 983	Carbon chip 10 kohm 1/16W	—	—
R542	—	—	247 0011 986	Carbon chip 68 kohm 1/10W	247 0011 986	Carbon chip 68 kohm 1/10W	—	—
R543	—	—	247 0010 987	Carbon chip 27 kohm 1/10W	247 0010 987	Carbon chip 27 kohm 1/10W	—	—
R544	—	—	247 2009 983	Carbon chip 10 kohm 1/16W	247 2009 983	Carbon chip 10 kohm 1/16W	—	—
R545	—	—	247 2018 903	Carbon chip 0 ohm 1/16W	247 2018 903	Carbon chip 0 ohm 1/16W	—	—

Ref. No.	EUROPE MODEL		ASIA MODEL		TAIWAN MODEL		U.S.A./CANADA MODELS	
	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
R546	—	—	247 2009 983	Carbon chip 10 kohm 1/16W	247 2009 983	Carbon chip 10 kohm 1/16W	—	—
R547,548	—	—	247 0009 985	Carbon chip 10 kohm 1/10W	247 0009 985	Carbon chip 10 kohm 1/10W	—	—
R549	—	—	247 2009 983	Carbon chip 10 kohm 1/16W	247 2009 983	Carbon chip 10 kohm 1/16W	—	—
R550	—	—	247 0005 921	Carbon chip 120 ohm 1/10W	247 0005 921	Carbon chip 120 ohm 1/10W	—	—
R550	—	—	257 0010 900	Ceramic chip 0.01 µF/50V	257 0010 900	Ceramic chip 0.01 µF/50V	—	—
R551~553	—	—	247 2009 983	Carbon chip 10 kohm 1/16W	247 2009 983	Carbon chip 10 kohm 1/16W	—	—
R553	—	—	257 0010 900	Ceramic chip 0.01 µF/50V	257 0010 900	Ceramic chip 0.01 µF/50V	—	—
R554	—	—	247 2018 903	Carbon chip 0 ohm 1/16W	247 2018 903	Carbon chip 0 ohm 1/16W	—	—
R555	—	—	247 0011 944	Carbon chip 47 kohm 1/10W	247 0011 944	Carbon chip 47 kohm 1/10W	—	—
R556~560	—	—	247 2018 903	Carbon chip 0 ohm 1/16W	247 2018 903	Carbon chip 0 ohm 1/16W	—	—
R561,562	—	—	247 2009 983	Carbon chip 10 kohm 1/16W	247 2009 983	Carbon chip 10 kohm 1/16W	—	—
R563	—	—	247 0011 944	Carbon chip 47 kohm 1/10W	247 0011 944	Carbon chip 47 kohm 1/10W	—	—
R564	—	—	247 2009 983	Carbon chip 10 kohm 1/16W	247 2009 983	Carbon chip 10 kohm 1/16W	—	—
R565	—	—	247 2009 983	Carbon chip 10 kohm 1/16W	247 2009 983	Carbon chip 10 kohm 1/16W	—	—
R566	—	—	247 0011 944	Carbon chip 47 kohm 1/10W	247 0011 944	Carbon chip 47 kohm 1/10W	—	—
R567	—	—	247 2004 920	Carbon chip 47 ohm 1/16W	247 2004 920	Carbon chip 47 ohm 1/16W	—	—
R568	—	—	247 2009 983	Carbon chip 10 kohm 1/16W	247 2009 983	Carbon chip 10 kohm 1/16W	—	—
R569	—	—	247 0011 944	Carbon chip 47 kohm 1/10W	247 0011 944	Carbon chip 47 kohm 1/10W	—	—
R570	—	—	247 2009 983	Carbon chip 10 kohm 1/16W	247 2009 983	Carbon chip 10 kohm 1/16W	—	—
R571~589	—	—	247 2018 903	Carbon chip 0 ohm 1/16W	247 2018 903	Carbon chip 0 ohm 1/16W	—	—
R621	247 0004 906	Carbon chip 39 ohm 1/10W	247 0004 906	Carbon chip 39 ohm 1/10W	247 0004 906	Carbon chip 39 ohm 1/10W	247 0018 905	Carbon chip 0 ohm 1/10W
R627	247 0005 905	Carbon chip 100 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W	247 0004 922	Carbon chip 47 ohm 1/10W
R630	247 0005 905	Carbon chip 100 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W	247 0005 905	Carbon chip 100 ohm 1/10W	247 0003 981	Carbon chip 33 ohm 1/10W
C101,102	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	—	—
C113,114	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	—	—
C123,124	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	—	—
C135,136	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	—	—
C145,146	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	—	—
C157,158	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	257 0005 986	Ceramic chip 330 pF/50V	—	—
C509	—	—	257 0014 935	Ceramic chip 0.1 µF/25V	257 0014 935	Ceramic chip 0.1 µF/25V	—	—
C510	—	—	257 0011 941	Ceramic chip 0.022 µF/25V	257 0011 941	Ceramic chip 0.022 µF/25V	—	—
C511	—	—	257 0011 996	Ceramic chip 0.1 µF/25V	257 0011 996	Ceramic chip 0.1 µF/25V	—	—
C512	—	—	257 0004 961	Ceramic chip 100 pF/50V	257 0004 961	Ceramic chip 100 pF/50V	—	—
C513~515	—	—	257 0014 935	Ceramic chip 0.1 µF/25V	257 0014 935	Ceramic chip 0.1 µF/25V	—	—
C516	—	—	257 0008 983	Ceramic chip 1000 pF/50V	257 0008 983	Ceramic chip 1000 pF/50V	—	—
C517,518	—	—	254 4299 906	Electrolytic 10 µF/16V	254 4299 906	Electrolytic 10 µF/16V	—	—
C519	—	—	257 0004 932	Ceramic chip 75 pF/50V	257 0004 932	Ceramic chip 75 pF/50V	—	—
C520	—	—	257 0010 900	Ceramic chip 0.01 µF/50V	257 0010 900	Ceramic chip 0.01 µF/50V	—	—
C521,522	—	—	257 0014 935	Ceramic chip 0.1 µF/25V	257 0014 935	Ceramic chip 0.1 µF/25V	—	—
C525	—	—	257 0014 935	Ceramic chip 0.1 µF/25V	257 0014 935	Ceramic chip 0.1 µF/25V	—	—
C528	—	—	257 0012 966	Ceramic chip 0.01 µF/50V	257 0012 966	Ceramic chip 0.01 µF/50V	—	—
C529	—	—	254 3056 917	Electrolytic 1 µF/50V	254 3056 917	Electrolytic 1 µF/50V	—	—
C530	—	—	257 0012 966	Ceramic chip 0.01 µF/50V	257 0012 966	Ceramic chip 0.01 µF/50V	—	—
C531	—	—	257 0014 935	Ceramic chip 0.1 µF/25V	257 0014 935	Ceramic chip 0.1 µF/25V	—	—
C532	—	—	254 3056 917	Electrolytic 1 µF/50V	254 3056 917	Electrolytic 1 µF/50V	—	—
C533,534	—	—	257 0014 935	Ceramic chip 0.1 µF/25V	257 0014 935	Ceramic chip 0.1 µF/25V	—	—
C535	—	—	254 4299 906	Electrolytic 10 µF/16V	254 4299 906	Electrolytic 10 µF/16V	—	—
C536,537	—	—	257 0014 935	Ceramic chip 0.1 µF/25V	257 0014 935	Ceramic chip 0.1 µF/25V	—	—
C538	—	—	257 0012 982	Ceramic chip 0.022 µF/50V	257 0012 982	Ceramic chip 0.022 µF/50V	—	—
C539	—	—	254 4299 906	Electrolytic 10 µF/16V	254 4299 906	Electrolytic 10 µF/16V	—	—

Ref. No.	EUROPE MODEL		ASIA MODEL		TAIWAN MODEL		U.S.A./CANADA MODELS	
	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
C540	—	—	257 0014 935	Ceramic chip 0.1 μF/25V	257 0014 935	Ceramic chip 0.1 μF/25V	—	—
C543~545	—	—	257 0014 935	Ceramic chip 0.1 μF/25V	257 0014 935	Ceramic chip 0.1 μF/25V	—	—
C546	—	—	254 3053 936	Electrolytic 47 μF/16V	254 3053 936	Electrolytic 47 μF/16V	—	—
C547	—	—	257 0002 989	Ceramic chip 18 pF/50V	257 0002 989	Ceramic chip 18 pF/50V	—	—
C548	—	—	254 4302 974	Electrolytic 100 μF/10V	254 4302 974	Electrolytic 100 μF/10V	—	—
C549	—	—	257 0012 966	Ceramic chip 0.01 μF/50V	257 0012 966	Ceramic chip 0.01 μF/50V	—	—
C551	—	—	257 0001 922	Ceramic chip 1 pF/50V	257 0001 922	Ceramic chip 1 pF/50V	—	—
C552	—	—	257 0012 966	Ceramic chip 0.01 μF/50V	257 0012 966	Ceramic chip 0.01 μF/50V	—	—
C554	—	—	257 0014 935	Ceramic chip 0.1 μF/25V	257 0014 935	Ceramic chip 0.1 μF/25V	—	—
C555,556	—	—	254 4299 906	Electrolytic 10 μF/16V	254 4299 906	Electrolytic 10 μF/16V	—	—
C557	—	—	257 0014 935	Ceramic chip 0.1 μF/25V	257 0014 935	Ceramic chip 0.1 μF/25V	—	—
BF201	—	—	261 0152 003	2.88M band pass filter	261 0152 003	2.88M band pass filter	—	—
CX036	—	—	205 0653 036	3P Connector base (35328)	205 0653 036	3P Connector base (35328)	—	—
CX933	—	—	205 0653 036	3P Connector base (35328)	205 0653 036	3P Connector base (35328)	—	—
L505	—	—	235 0070 953	Inductor 68μH	235 0070 953	Inductor 68μH	—	—
X501	—	—	399 0402 003	Crystal 18.432 MHz	399 0402 003	Crystal 18.432 MHz	—	—

EXPLODED VIEW

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.


1
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A
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C
D
E
EUROPE,ASIA, TAIWAN model
50
7
22
17 ⚠
19
1-3
21
109
3-3
52
53
54
108
104
105
4-2
6-2
5-1
6-1
23
104
2-1
46
105
105
20
ASIA, TAIWAN model
105
35
-5V REC. UNIT
106
33
34
105
4-1
20
3-2
108
1-1
47
32
4-5
39
3-5
3-4
104
1-4
EUROPE,ASIA, TAIWAN model
U.S.A./CANADA model
101
2-4
4-3
4-4
102
51
107
36
40
2-2
2-3
41 ⚠
4-7
4-8
EUROPE,ASIA, TAIWAN model
49
16
15
18
37
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31
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12
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24
48
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3-1
42
44
14
13
104
105

PARTS LIST OF EXPLODED VIEW

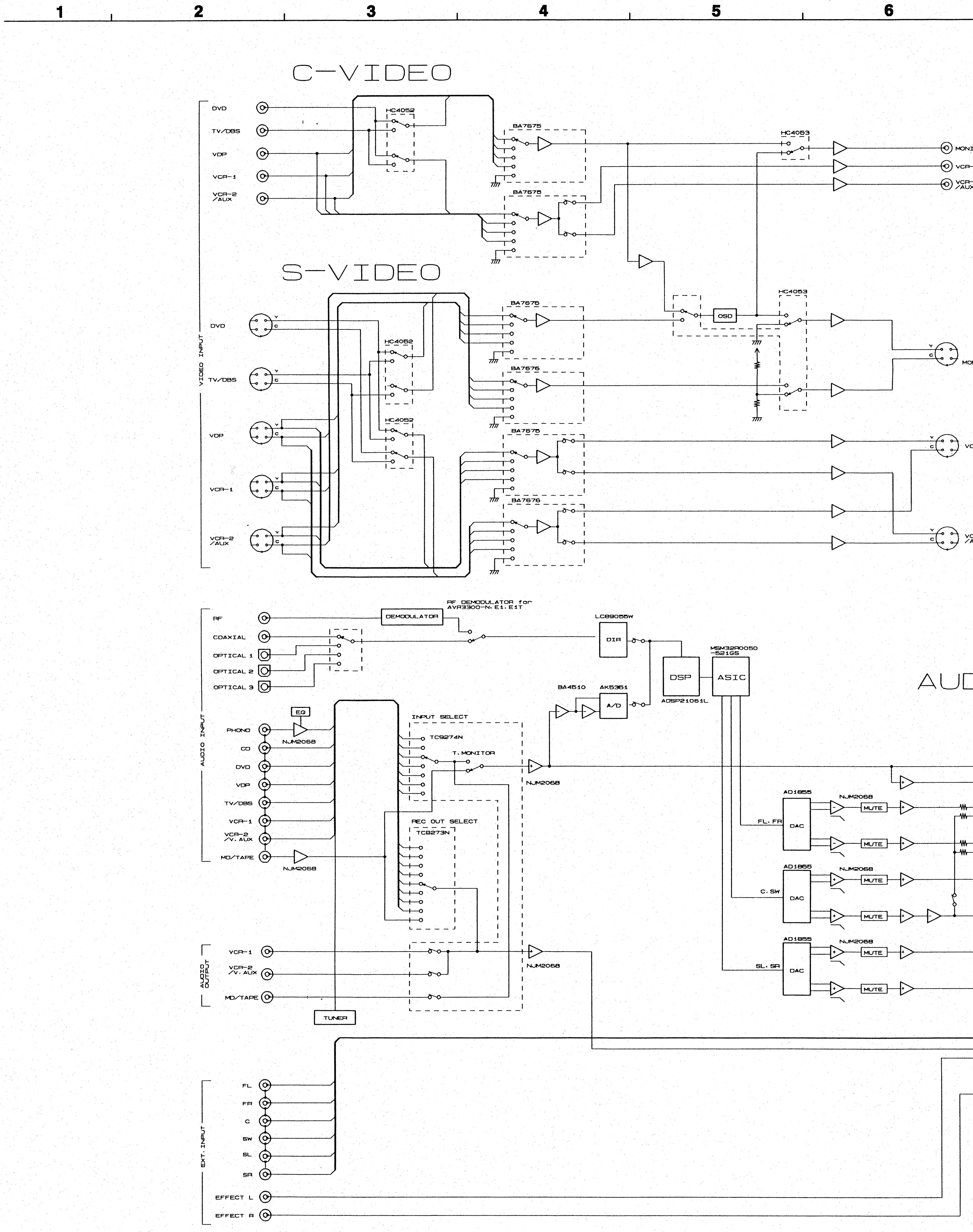
Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	1U-3198	Power unit ass'y		1
1-1	1U-3198-1	Power unit		
1-3	1U-3198-3	Component video unit		
1-4	1U-3198-4	Wiring unit		
2	1U-3199	EXT. IN unit ass'y		1
2-1	1U-3199-1	EXT. IN / VR. unit		
2-2	1U-3199-2	Display unit		
2-3	1U-3199-3	VOL. unit		
2-4	1U-3199-4	P.SW. unit	Europe,Asia, Taiwan model	
3	1U-3200	Control unit ass'y		1
3-1	1U-3200-1	Control unit		
3-2	1U-3200-2	Connect unit		
3-3	1U-3200-3	PRE OUT unit		
3-4	1U-3200-4	Digital in unit		
3-5	1U-3200-5	Digital in-2 unit		
4	1U-3201	Regulator unit ass'y		1
4-1	1U-3201-1	Regulator unit		
4-2	1U-3201-2	AMP unit		
4-3	1U-3201-3	H/P & P. SW unit		
4-4	1U-3201-4	Front unit		
4-5	1U-3201-5	Tuner unit		
4-7	1U-3201-7	Posistor unit		
4-8	1U-3201-8	Posistor unit		
5	1U-3215	Audio / DSP unit		1
5-1	1U-3215-1	Audio / DSP unit ass'y		
6	1U-3244	Video unit ass'y		1
6-1	1U-3244-1	S-video unit		
6-2	1U-3224-2	C-video unit		
7	1U-3223B	Voltage select unit	Asia & Taiwan model only	1
11	411 1372 526	Main chassis		1
12	412 4522 004	Trans bracket		1
13	412 4210 002	Bracket		2
14	104 0194 205	Foot ass'y		4
15	449 0133 017	PWB Holder		1
16	412 3548 005	PWB Catcher		1
⚠ 17	Note	AC Cord		1
18	412 2814 028	Card spacer	L=10	11
19	412 2814 031	Card spacer	L=4	1
20	409 0052 019	Holder (A)		2
21	Note	Back panel		1
22	445 0056 008	Cord bush		1
23	205 1116 006	Terminal ass'y		1
24	Note	Inner panel		1
25	Note	Display sheet		1
26	475 6124 003	12 NUT		1
28	Note	Front panel		1
29	143 1064 009	Window		1
30	Note	DENON mark		1
31	143 1011 007	Lens (S)		3
32	417 0585 202	Radiator		1
33	273 0413 004	Transistor 2SC3855LB4(O/P/Y)(Z)		5
34	271 0263 009	Transistor 2SA1491LB4(O/P/Y)(Z)		5
35	412 4127 001	PWB Bracket (B)		2
36	412 4525 001	Fan bracket		1
37	412 4527 009	Fan cover		1
38	421 0749 005	Fan (80×80)24V		1
39	412 2741 007	PWB Holder		1
40	412 4296 107	Radiator bracket		1
⚠ 41	Note	Power trans		1
42	Note	Knob (M) ass'y		1
43	Note	Knob (F) ass'y		1
44	Note	Knob (S) ass'y		1
45	Note	Push knob		1
46	Note	Top cover		1
47	415 0234 007	Insulating sheet		10
48	513 3309 000	Caution label	USA/CANADA model only	1
★	203 4871 067	3P KR-KR Connector	CN31	1
★	203 4871 067	3P KR-KR Connector	CN37	1
★	203 4871 083	3P KR-KR Connector	CN38	1
★	203 4871 067	3P KR-KR Connector	CN39	1
★	203 6386 026	4P KR-KR Connector	CN41	1
49	412 2955 107	Side bracket		1
50	203 3942 007	AC Outret		1
51	513 3333 005	Label (Trans)		1
SCREWS				
101	4737500015	Screw 3×8 CBTS (P)-Z		19
102	4737501001	Screw 3×10 CBTS (P)-Z		11
103	4737501030	Screw 3×20 CBTS (P)-Z		1
104	4737015018	Screw 3×8 CBTS (S)-B		13
105	4737005002	Screw 3×10 CBTS (S)-Z		37
106	4738007009	Screw 3×12 CUP SCREW		10
107	4737004003	Screw 4×8 CBTS (S)-Z		10
108	4738064000	Screw 4×8 CBTS(B)-B-3P		6
109	4770064107	FIXING SCREW		36
110	473 8064 013	Screw 4×8 CBTS(B)-N-3P	Gold model only	6
PACKING & ACCESSORIES (Not included EXPLODED VIEW)				
201	503 1325 005	Cushion ass'y		1
202	503 1326 004	Cushion (Front)		1
203	503 1327 003	Cushion (Rear)		1
204	505 8006 019	Envelope		1
205	Note	Inst manual		1
206	231 0922 009	Loop antenna		1
207	395 0023 008	*FM Antenna ass'y		1
208	529 0079 008	FM Antenna adapter		1
209	Note	Remote control		1
210	515 0671 708	Service station list		1
211	501 2045 003	Carton case		1
212	513 1389 006	Control card base		1
213	513 1349 004	Thermal carbon film		1
214	515 0690 307	DEL Warranty home		1
215	Note	Color label (Gold)		1
216	Note	Preset label		1
217	504 0189 009	Cabinet sheet		1
★ 218	Note	AC Adapter (4.8)	Asia, Taiwan model	1

ADDENDUM PARTS LIST OF EXPLODED VIEW

G Mark: Gold model B Mark: Black model

Ref. No.	EUROPE MODEL			ASIA MODEL			TAIWAN MODEL			U.S.A./CANADA MODELS		
	Part No.	Part Name		Part No.	Part Name		Part No.	Part Name		Part No.	Part Name	
17	206 2171 001	AC Cord		206 2173 009	AC Cord		206 2173 009	AC Cord		206 2161 008	AC Cord	
21	105 1316 124	Back panel		105 1316 137	Back panel		105 1316 137	Back panel		105 1316 108	Back panel	
24	146 2139 013	Inner panel	G	146 2139 013	Inner panel	G	146 2139 013	Inner panel	G	146 2139 107	Inner panel	B
25	143 1065 118	Display sheet	G	143 1065 011	Display sheet	G	143 1065 011	Display sheet	G	143 1065 008	Display sheet	
28	144 2668 041	Front panel	G	144 2668 054	Front panel	G	144 2668 054	Front panel	G	—	—	
	144 2668 025	Front panel	B	144 2668 038	Front panel	B	144 2668 038	Front panel	B	144 2668 009	Front panel	B
30	131 9004 068	DENON mark	G	131 9004 068	DENON mark	G	131 9004 068	DENON mark	G	—	—	
	131 9004 013	DENON mark	B	131 9004 013	DENON mark	B	131 9004 013	DENON mark	B	131 9004 013	DENON mark	B
41	233 6300 003	Power trans (Main)		233 6301 002	Power trans (Main)		233 6301 002	Power trans (Main)		233 6295 008	Power trans (Main)	
42	112 0839 011	Knob (M) ass'y	G	112 0839 011	Knob (M) ass'y	G	112 0839 011	Knob (M) ass'y	G	—	—	
	112 0839 008	Knob (M) ass'y	B	112 0839 008	Knob (M) ass'y	B	112 0839 008	Knob (M) ass'y	B	112 0839 008	Knob (M) ass'y	
43	112 0837 013	Knob (F) ass'y	G	112 0837 013	Knob (F) ass'y	G	112 0837 013	Knob (F) ass'y	G	—	—	
	112 0837 000	Knob (F) ass'y	B	112 0837 000	Knob (F) ass'y	B	112 0837 000	Knob (F) ass'y	B	112 0837 000	Knob (F) ass'y	
44	112 0835 015	Knob (S) ass'y	G	112 0835 015	Knob (S) ass'y	G	112 0835 015	Knob (S) ass'y	G	—	—	
	112 0835 002	Knob (S) ass'y	B	112 0835 002	Knob (S) ass'y	B	112 0835 002	Knob (S) ass'y	B	112 0835 002	Knob (S) ass'y	
45	113 1873 011	Push knob	G	113 1873 011	Push knob	G	113 1873 011	Push knob	G	—	—	
	113 1873 008	Push knob	B	113 1873 008	Push knob	B	113 1873 008	Push knob	B	113 1873 008	Push knob	
46	102 0603 017	Top cover	G	102 0603 017	Top cover	G	102 0603 017	Top cover	G	—	—	
	102 0603 004	Top cover	B	102 0603 004	Top cover	B	102 0603 004	Top cover	B	102 0603 004	Top cover	B
52	—	—		513 3331 007	Label (DTS)		513 3331 007	Label (DTS)		—	—	
53	—	—		—	—		513 2482 009	Caution Label (T)		—	—	
54	—	—		—	—		513 2481 000	Serial No. Sheet (T)		—	—	
205	511 3501 006	Inst manual		511 3459 006	Inst manual		511 3459 006	Inst manual		511 3459 006	Inst manual	
209	399 0546 011	Remote control (RC-864)		399 0546 008	Remote control (RC-860)		399 0546 008	Remote control (RC-860)		399 0546 008	Remote control (RC-860)	
215	513 9111 001	Color label (Gold)		513 9111 001	Color label (Gold)		513 9111 001	Color label (Gold)		—	—	
216	—	—		515 8030 040	Preset label		515 8030 040	Preset label		—	—	

BLOCK DIAGRAM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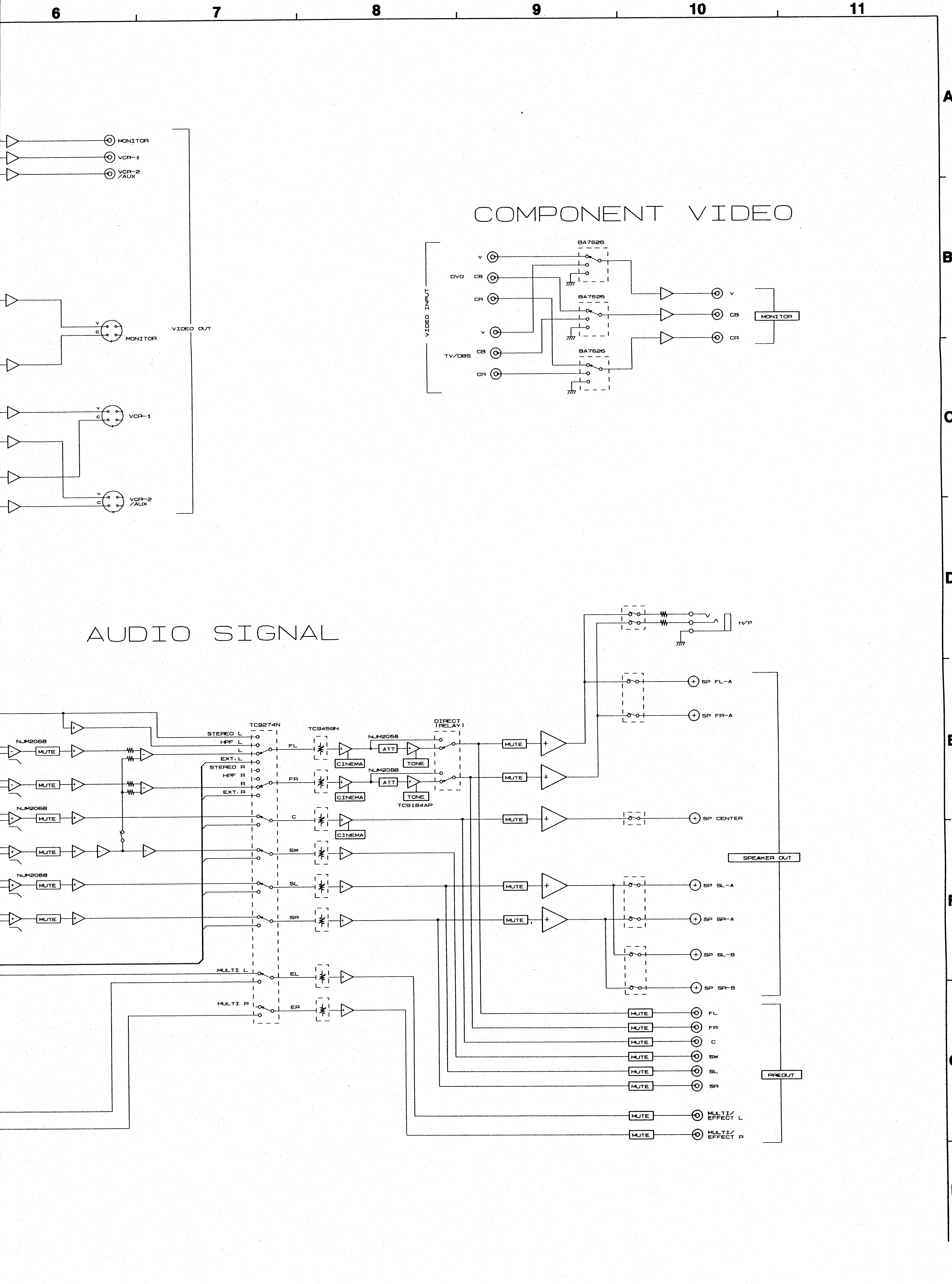
3
4
5
6
C-VIDEO
DVD
TV/DBS
VDP
VCR-1
VCR-2
/AUX
HC4052
BA7675
BA7676
HC4053
MONI
VCR-
VCR-
/AUX
S-VIDEO
VIDEO INPUT
DVD
TV/DBS
VDP
VCR-1
VCR-2
/AUX
Y
C
HC4052
HC4052
BA7676
BA7676
BA7676
BA7676
OSD
HC4053
MO
VC
VC
/A
RF
COAXIAL
OPTICAL 1
OPTICAL 2
OPTICAL 3
DEMODULATOR
RF DEMODULATOR for
AVR3300-N, E1, E1T
LC89055W
DIR
MSM32R0050
-521GS
DSP
ASIC
ADSP21061L
AUD
BA4510
AK5361
A/D
AUDIO INPUT
EQ
PHONO
NJM2068
CD
DVD
VDP
TV/DBS
VCR-1
VCR-2
/V. AUX
MD/TAPE
NJM2068
INPUT SELECT
TC9274N
T. MONITOR
NJM2068
REC OUT SELECT
TC9273N
AD1855
NJM2068
FL. FR
DAC
MUTE
AD1855
NJM2068
C. SW
DAC
MUTE
AD1855
NJM2068
SL. SR
DAC
MUTE
AUDIO OUTPUT
VCR-1
VCR-2
/V. AUX
MD/TAPE
NJM2068
TUNER
EXT. INPUT
FL
FR
C
SW
SL
SR
EFFECT L
EFFECT R


6
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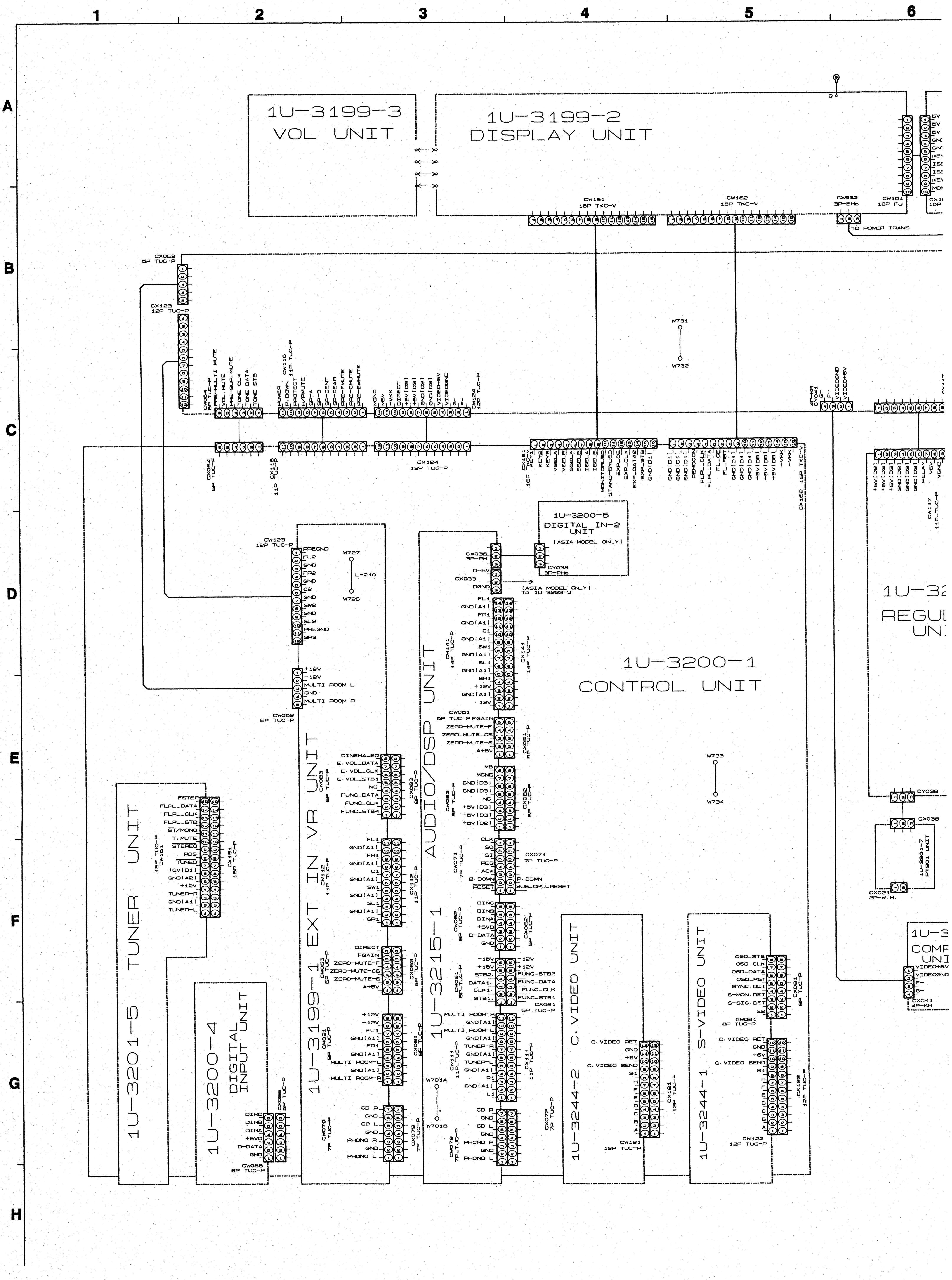
11
A
B
C
D
E
F
G
MONITOR
VCR-1
VCR-2 /AUX
COMPONENT VIDEO
VIDEO INPUT
DVD
TV/DBS
Y
CB
CR
BA7626
BA7626
BA7626
Y
CB
CR
MONITOR
Y
C
MONITOR
VIDEO OUT
Y
C
VCR-1
Y
C
VCR-2 /AUX
AUDIO SIGNAL
NJM2068
MUTE
NJM2068
NJM2068
TC9274N
STEREO L
HPF L
L
EXT. L
STEREO R
HPF R
R
EXT. R
FL
FR
C
SW
SL
SR
MULTI L
EL
MULTI R
ER
TC9459N
CINEMA
CINEMA
CINEMA
NJM2068
ATT
TONE
NJM2068
ATT
TONE
TC9184AP
DIRECT (RELAY)
MUTE
H/P
SP FL-A
SP FR-A
SP CENTER
SPEAKER OUT
SP SL-A
SP SR-A
SP SL-B
SP SR-B
FL
FR
C
SW
SL
SR
PREOUT
MULTI/ EFFECT L
MULTI/ EFFECT R

WIRING DIAGRAM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5
6
A
B
C
D
E
F
G
H
1U-3199-3
VOL UNIT
1U-3199-2
DISPLAY UNIT
CW151
16P TKC-V
CW162
16P TKC-V
CX932
3P-EH8
CW101
10P FJ
TO POWER TRANS
CX052
5P TUC-P
CX123
12P TUC-P
CW054
6P TUC-P
CW115
11P TUC-P
CW124
12P TUC-P
CX054
6P TUC-P
CX115
11P TUC-P
CX124
12P TUC-P
CX151
16P TKC-V
CX162
16P TKC-V
W731
W732
W733
W734
W727
L=210
W726
W701A
W701B
1U-3200-5
DIGITAL IN-2
UNIT
[ASIA MODEL ONLY]
CX036
3P-PH
CY036
3P-PH8
CX933
[ASIA MODEL ONLY]
TO 1U-3223-3
CW123
12P TUC-P
CW052
5P TUC-P
1U-3200-1
CONTROL UNIT
CW141
14P TUC-P
CX141
14P TUC-P
CW051
5P TUC-P
CX051
5P TUC-P
CW082
8P TUC-P
CX082
8P TUC-P
CW071
7P TUC-P
CX071
7P TUC-P
P. DOWN
SUB_CPU_RESET
CW062
6P TUC-P
CX062
6P TUC-P
CW061
6P TUC-P
CX061
6P TUC-P
CW111
11P TUC-P
CX111
11P TUC-P
CW072
7P TUC-P
CX072
7P TUC-P
1U-3215-1
AUDIO/DSP UNIT
1U-3199-1
EXT IN VR UNIT
CW083
8P TUC-P
CX083
8P TUC-P
CW112
11P TUC-P
CX112
11P TUC-P
CW053
5P TUC-P
CX053
5P TUC-P
CW091
9P TUC-P
CX091
9P TUC-P
CW079
7P TUC-P
CX079
7P TUC-P
1U-3201-5
TUNER UNIT
CW151
15P TUC-P
CX151
15P TUC-P
1U-3200-4
DIGITAL INPUT UNIT
CX066
6P TUC-P
CW066
6P TUC-P
1U-3244-2
C. VIDEO UNIT
CX121
12P TUC-P
CW121
12P TUC-P
1U-3244-1
S-VIDEO UNIT
CW081
8P TUC-P
CX081
8P TUC-P
CW122
12P TUC-P
CX122
12P TUC-P
CW117
11P TUC-P
CY038
CX038
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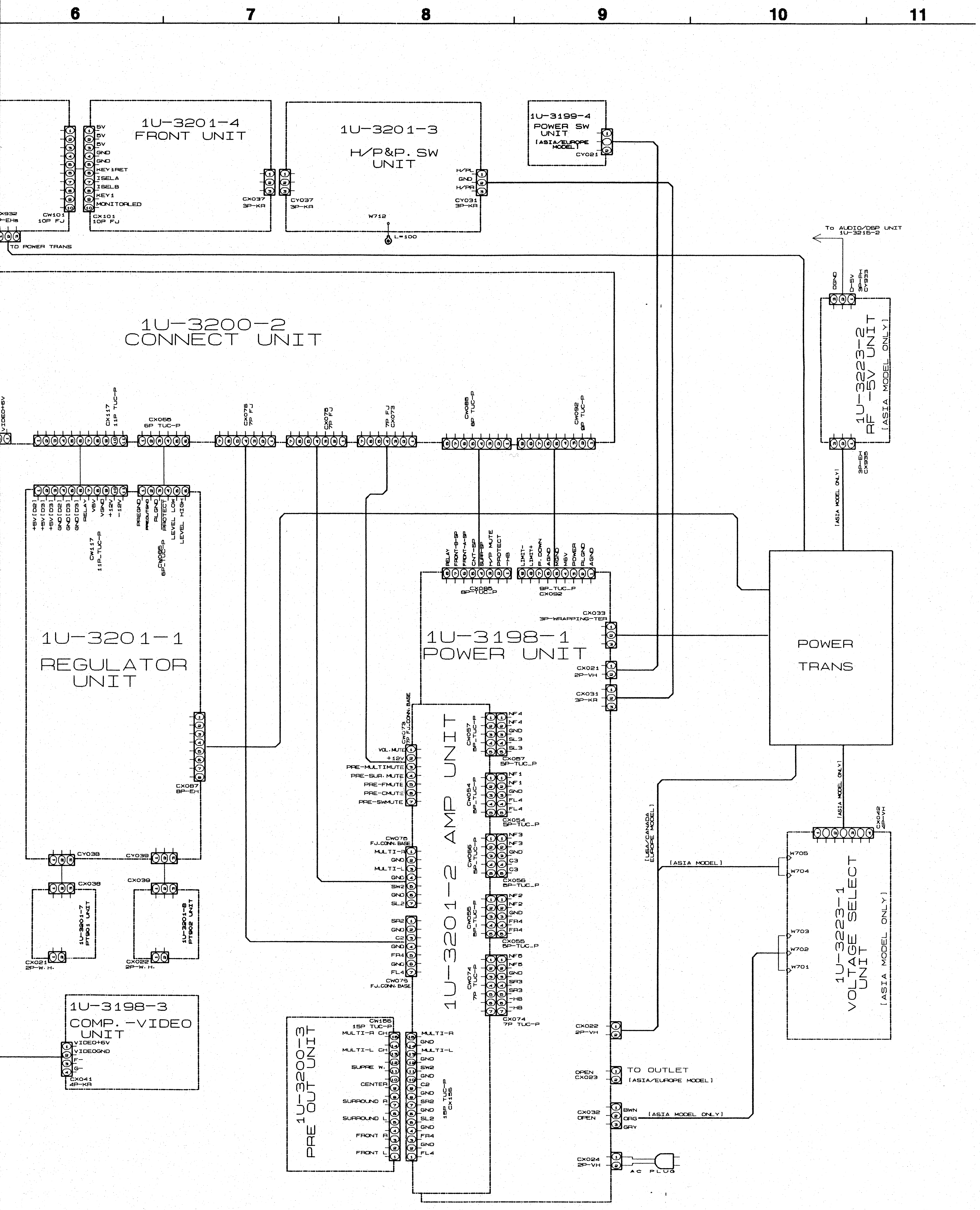
PT901 UNIT
CX021
2P-W.H.
CX041
4P-KR
CY041
4P-KR
REGUL
COMP
UNI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7
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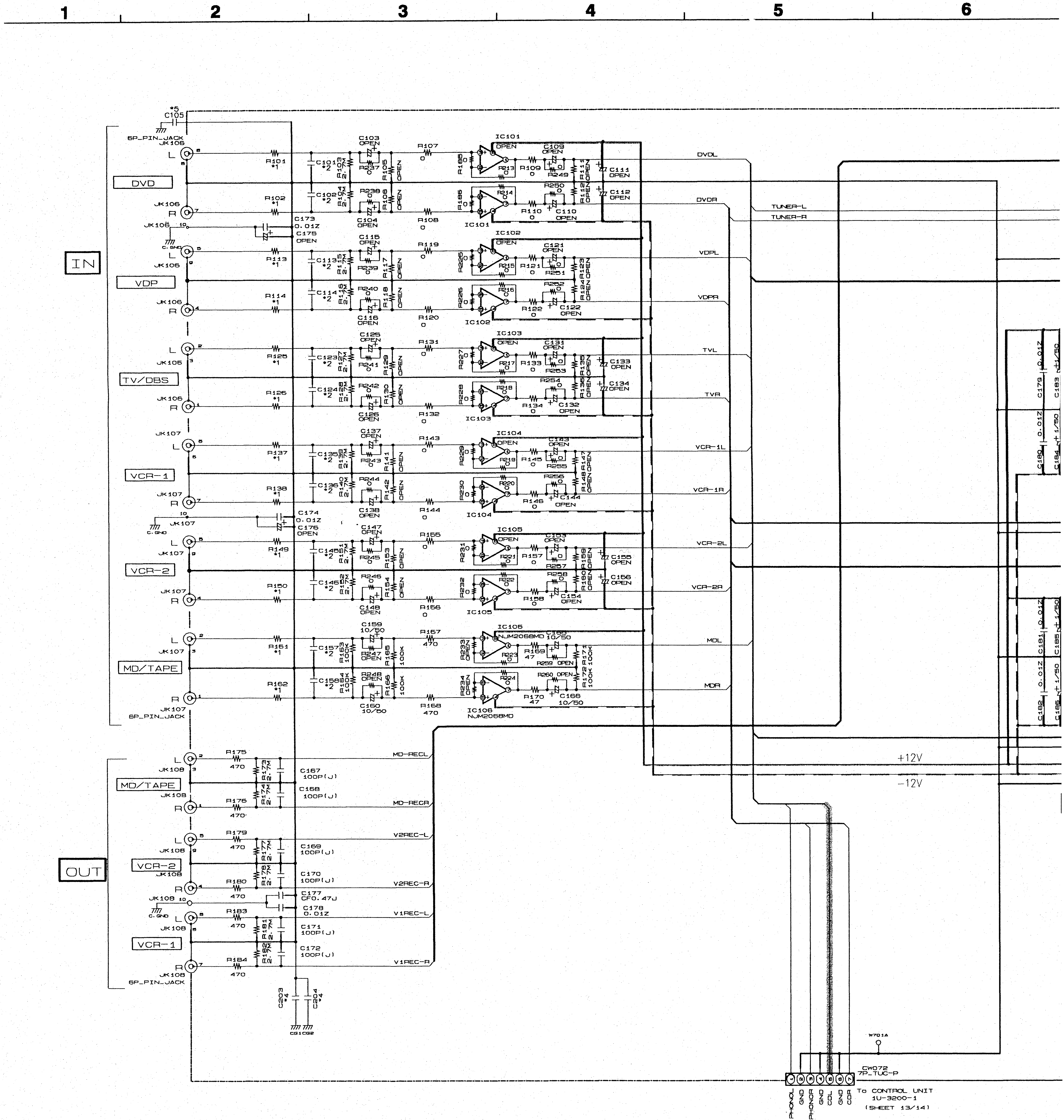
1U-3201-4
FRONT UNIT
5V
5V
5V
GND
GND
KEY1RET
ISELA
ISELB
KEY1
MONITORLED
CW101
10P FJ
CX101
10P FJ
CX037
3P-KR
CY037
3P-KR
1U-3201-3
H/P&P. SW
UNIT
H/PL
GND
H/PR
CY031
3P-KR
W712
L=100
1U-3199-4
POWER SW
UNIT
[ASIA/EUROPE MODEL]
CY021
TO POWER TRANS
To AUDIO/DSP UNIT
1U-3215-2
1U-3200-2
CONNECT UNIT
VIDEO+5V
CX117
11P TUC-P
CX058
6P TUC-P
CX076
7P FJ
CX075
7P FJ
7P FJ
CX073
CW085
8P TUC-P
CW092
9P TUC-P
DGND
D-5V
3P-PH
CY933
1U-3223-2
RF -5V UNIT
[ASIA MODEL ONLY]
3P-EH
CX935
[ASIA MODEL ONLY]
+5V(D2)
+5V(D3)
+5V(D3)
GND(D2)
GND(D3)
GND(D3)
RELAY
V5V
VGND
+12V
-12V
CW117
11P_TUC-P
PREGND
PREOUTGND
RLGND
PROTECT
LEVEL LOW
LEVEL HIGH
CW058
6P_TUC-P
1U-3201-1
REGULATOR
UNIT
CX087
8P-EH
RELAY
FRONT-B-SP
FRONT-A-SP
CNT-SP
SURR-SP
H/P MUTE
PROTECT
-HB
LIMIT-
LIMIT+
P.DOWN
AGND
AGND
M5V
POWER
RLGND
AGND
CX085
8P-TUC-P
9P_TUC_P
CX092
CX033
3P-WRAPPING-TER
1U-3198-1
POWER UNIT
CX021
2P-VH
CX031
3P-KR
POWER
TRANS
CW073
7P FJ.CONN.BASE
VOL.MUTE
+12V
PRE-MULTIMUTE
PRE-SUR.MUTE
PRE-FMUTE
PRE-CMUTE
PRE-SWMUTE
CW057
5P_TUC-P
NF4
NF4
GND
SL3
SL3
CX057
5P-TUC_P
CW054
5P_TUC-P
NF1
NF1
GND
FL4
FL4
CX054
5P-TUC_P
CW075
FJ.CONN.BASE
MULTI-R
GND
MULTI-L
GND
SW2
GND
SL2
CW056
5P_TUC-P
NF3
NF3
GND
C3
C3
CX056
5P-TUC_P
1U-3201-2 AMP UNIT
CW055
5P_TUC-P
NF2
NF2
GND
FR4
FR4
CX055
5P-TUC_P
SR2
GND
C2
GND
FR4
GND
FL4
CW075
FJ.CONN.BASE
CW074
7P TUC-P
NF5
NF5
GND
SR3
SR3
-HB
-HB
CX074
7P TUC-P
CY038
CY039
CX038
CX039
1U-3201-7
PT901 UNIT
1U-3201-8
PT902 UNIT
CX021
2P-W.H.
CX022
2P-W.H.
[USA/CANADA EUROPE MODEL]
[ASIA MODEL]
[ASIA MODEL ONLY]
CX042
6P-VH
W705
W704
W703
W702
W701
1U-3223-1
VOLTAGE SELECT
UNIT
[ASIA MODEL ONLY]
1U-3198-3
COMP.-VIDEO
UNIT
VIDEO+5V
VIDEOGND
F+
G-
CX041
4P-KR
1U-3200-3
PRE OUT UNIT
CW155
15P TUC-P
MULTI-R CH
MULTI-L CH
SUPRE W.
CENTER
SURROUND R
SURROUND L
FRONT R
FRONT L
MULTI-R
GND
MULTI-L
GND
SW2
GND
C2
GND
SR2
GND
SL2
GND
FR4
GND
FL4
15P TUC-P
CX155
CX022
2P-VH
OPEN
CX023
TO OUTLET
[ASIA/EUROPE MODEL]
CX032
OPEN
BWN
ORG
GRY
[ASIA MODEL ONLY]
CX024
2P-VH
AC PLUG

SCHEMATIC DIAGRAMS (1/14)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DVD
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TV/DBS
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VCR-2
MD/TAPE
OUT
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JK106
JK107
JK108
C.GND
IC101
IC102
IC103
IC104
IC105
IC106
NJM2068MD
DVDL
DVDR
TUNER-L
TUNER-R
VDPL
VDPR
TVL
TVR
VCR-1L
VCR-1R
VCR-2L
VCR-2R
MDL
MDR
MD-RECL
MD-RECR
V2REC-L
V2REC-R
V1REC-L
V1REC-R
+12V
-12V
C173 0.01Z
C175 OPEN
C174 0.01Z
C176 OPEN
C177 CF0.47J
C178 0.01Z
C167 100P(J)
C168 100P(J)
C169 100P(J)
C170 100P(J)
C171 100P(J)
C172 100P(J)
C203 *4
C204 *4
CG1C92
*5 C105
W701A
CW072 7P_TUC-P
PHONOL
GND
PHONOR
GND
CDL
GND
CDR
To CONTROL UNIT 1U-3200-1 (SHEET 13/14)

	*1 R101,102,113,114,125,126 R137,138,149,150,161,162	*2 C101,102,113,114,123,124 C135,136,145,146,157,158	*3 C195,196	*4 C203,204	*5 C105
USA CANADA	100	OPEN	10/16	OPEN	OPEN
EUROPE	470	CK330P	100/16	CK473K	CK0.022Z
ASIA	470	CK330P	10/16	OPEN	OPEN

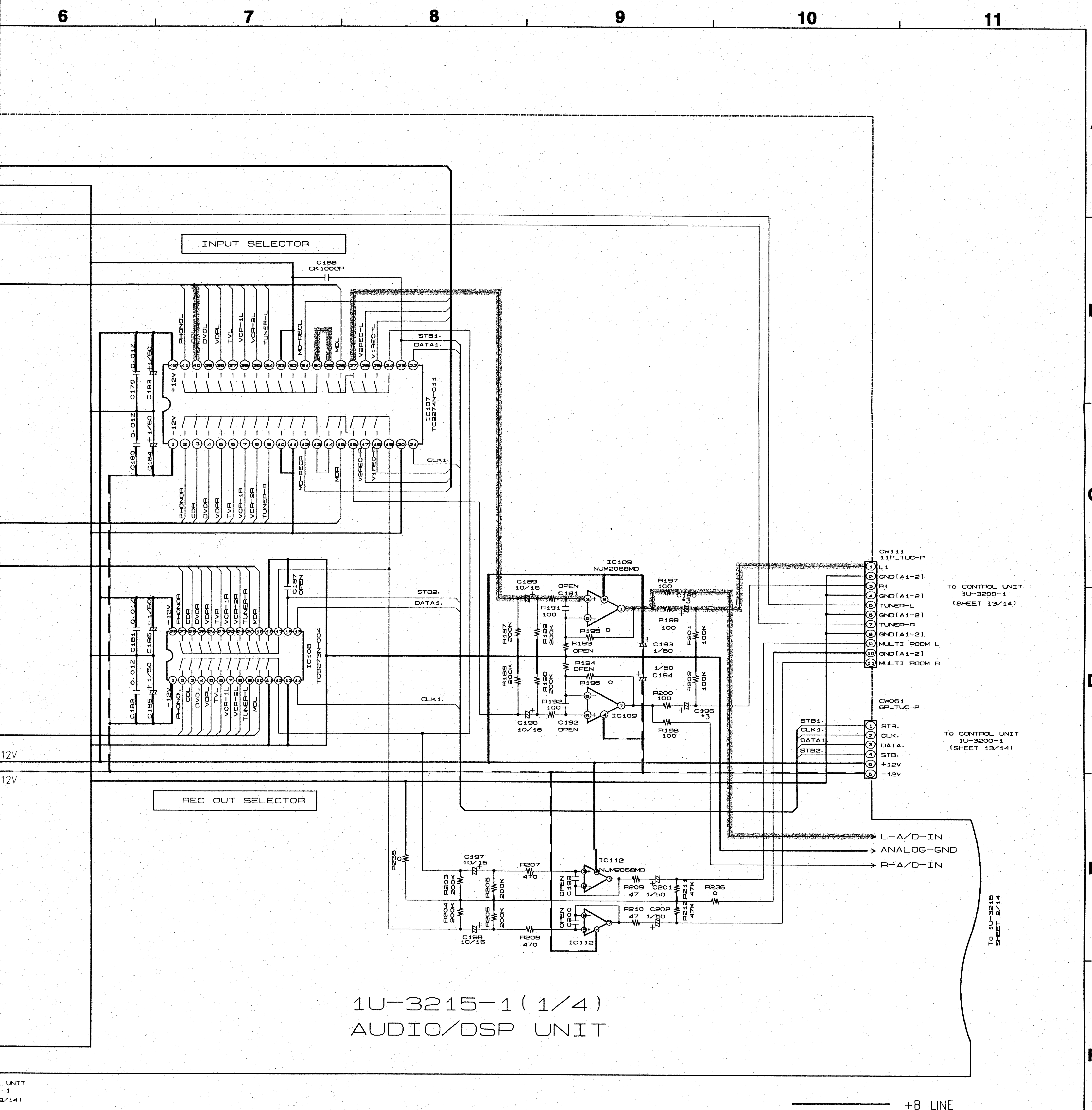
NOTICE

ALL RESISTANCE VALUES IN

ALL CAPACITANCE VALUES IN

EACH VOLTAGE AND CURREN
CONDITION.

CIRCUIT AND PARTS ARE SU
NOTICE.


6
7
8
9
10
11
A
B
C
D
E
F
INPUT SELECTOR
C188 CK1000P
IC107 TC9274N-011
PHONOL
CDL
DVDL
VDPL
TVL
VCR-1L
VCR-2L
TUNER-L
MD-RECL
MDL
V2REC-L
V1REC-L
PHONOR
CDR
DVDR
VDPR
TVR
VCR-1R
VCR-2R
TUNER-R
MD-RECR
MDR
V2REC-R
V1REC-R
+12V
-12V
C179 0.01Z
C183 +1/50
C180 0.01Z
C184 +1/50
STB1.
DATA1.
CLK1.
STB2.
DATA1.
CLK1.
IC108 TC9273N-004
C187 OPEN
C181 0.01Z
C185 +1/50
C182 0.01Z
C186 +1/50
IC109 NJM2068MD
C189 10/16
OPEN C191
R191 100
R187 200K
R189 200K
R195 0
R193 OPEN
R194 OPEN
R196 0
R188 200K
R190 200K
R192 100
C190 10/16
C192 OPEN
R197 100
C195
R199 100
C193 1/50
R201 100K
1/50 C194
R200 100
R202 100K
C196
R198 100
CW111 11P_TUC-P
L1
GND(A1-2)
R1
GND(A1-2)
TUNER-L
GND(A1-2)
TUNER-R
GND(A1-2)
MULTI ROOM L
GND(A1-2)
MULTI ROOM R
To CONTROL UNIT 1U-3200-1 (SHEET 13/14)
CW061 6P_TUC-P
STB1.
CLK1.
DATA1.
STB2.
STB.
CLK.
DATA.
STB.
+12V
-12V
To CONTROL UNIT 1U-3200-1 (SHEET 13/14)
12V
12V
REC OUT SELECTOR
L-A/D-IN
ANALOG-GND
R-A/D-IN
To 1U-3215 SHEET 2/14
R235 0
C197 10/16
R207 470
IC112 NJM2068MD
R203 200K
R205 200K
R204 200K
R206 200K
C199 OPEN
C200 OPEN
R209 47
C201 1/50
R211 47K
R236 0
R210 47
C202 1/50
R212 47K
C198 10/16
R208 470
IC112
1U-3215-1(1/4)
AUDIO/DSP UNIT
UNIT
-1
3/14)

———— +B LINE

— — — -B LINE

▨▨▨▨ SIGNAL LINE

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.

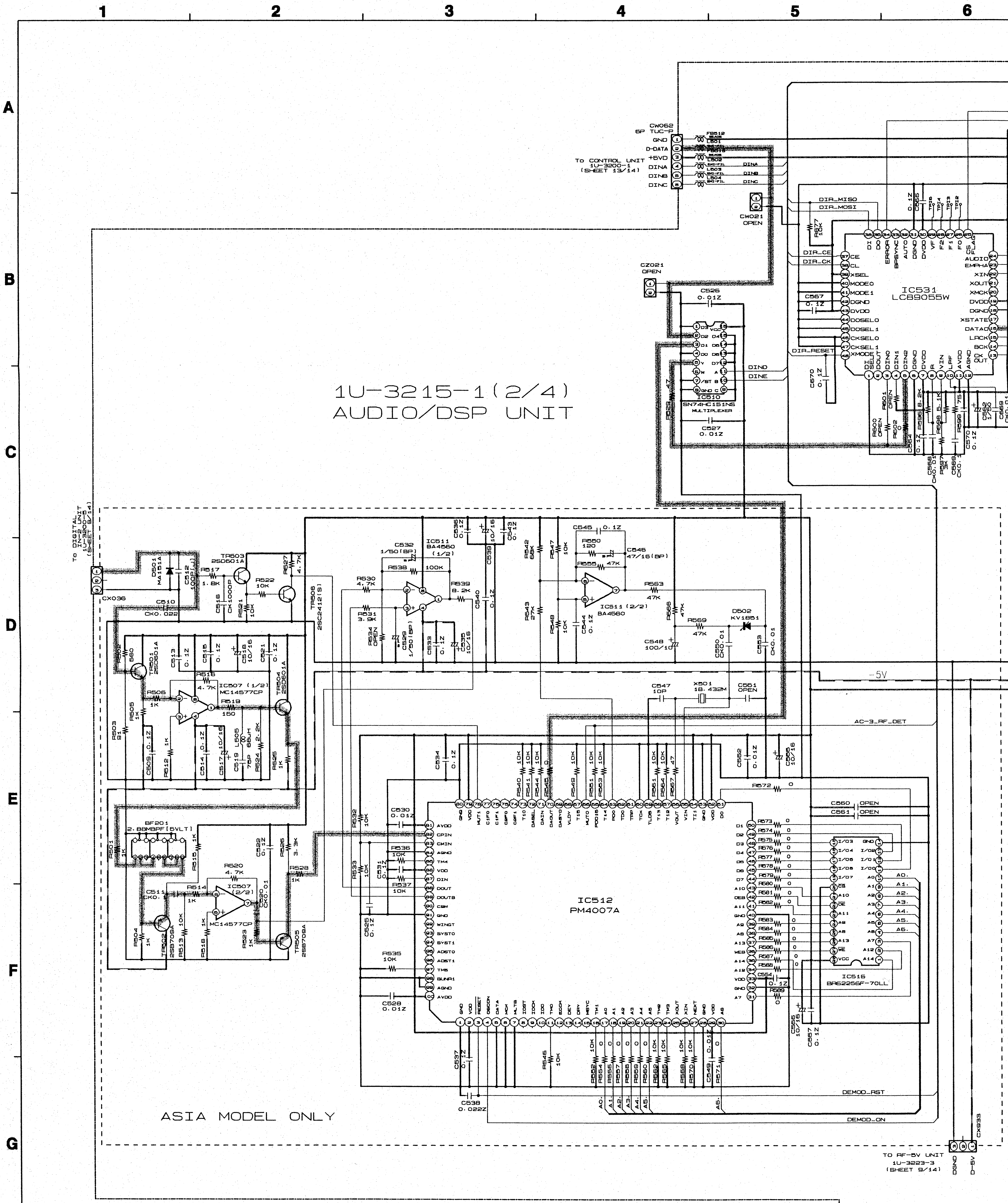
G

H

SCHEMATIC DIAGRAMS (1/14)

1U-3215-1 AUDIO / DSP UNIT

SCHEMATIC DIAGRAMS (2/14)


1
2
3
4
5
6
A
B
C
D
E
F
G
1U-3215-1(2/4)
AUDIO/DSP UNIT
ASIA MODEL ONLY
CW062
6P TUC-P
GND
D-DATA
+5VD
DINA
DINB
DINC
To CONTROL UNIT
1U-3200-1
(SHEET 13/14)
CW021
OPEN
CZ021
OPEN
IC510
SN74HC151NS
MULTIPLEXER
IC531
LC89055W
DIR_MISO
DIR_MOSI
DIR_CE
DIR_CK
DIR_RESET
DIND
DINE
To DIGITAL IN-2 UNIT 1U-3220-3 (SHEET 8/14)
CX036
TR603
2SD601A
TR505
2SC2412(S)
IC511
BA4560
IC507 (1/2)
MC14577CP
IC507 (2/2)
BF201
2.88MBPF(5VLT)
D502
KV1851
X501
18.432M
-5V
AC-3_RF_DET
IC512
PM4007A
IC516
BR6225GF-70LL
DEMOD_RST
DEMOD_ON
To RF-5V UNIT
1U-3223-3
(SHEET 9/14)
CX935
GND
D-5V
To SHEET 1/14
L-A/D-IN
ANALOG-GND
R-A/D-IN

NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

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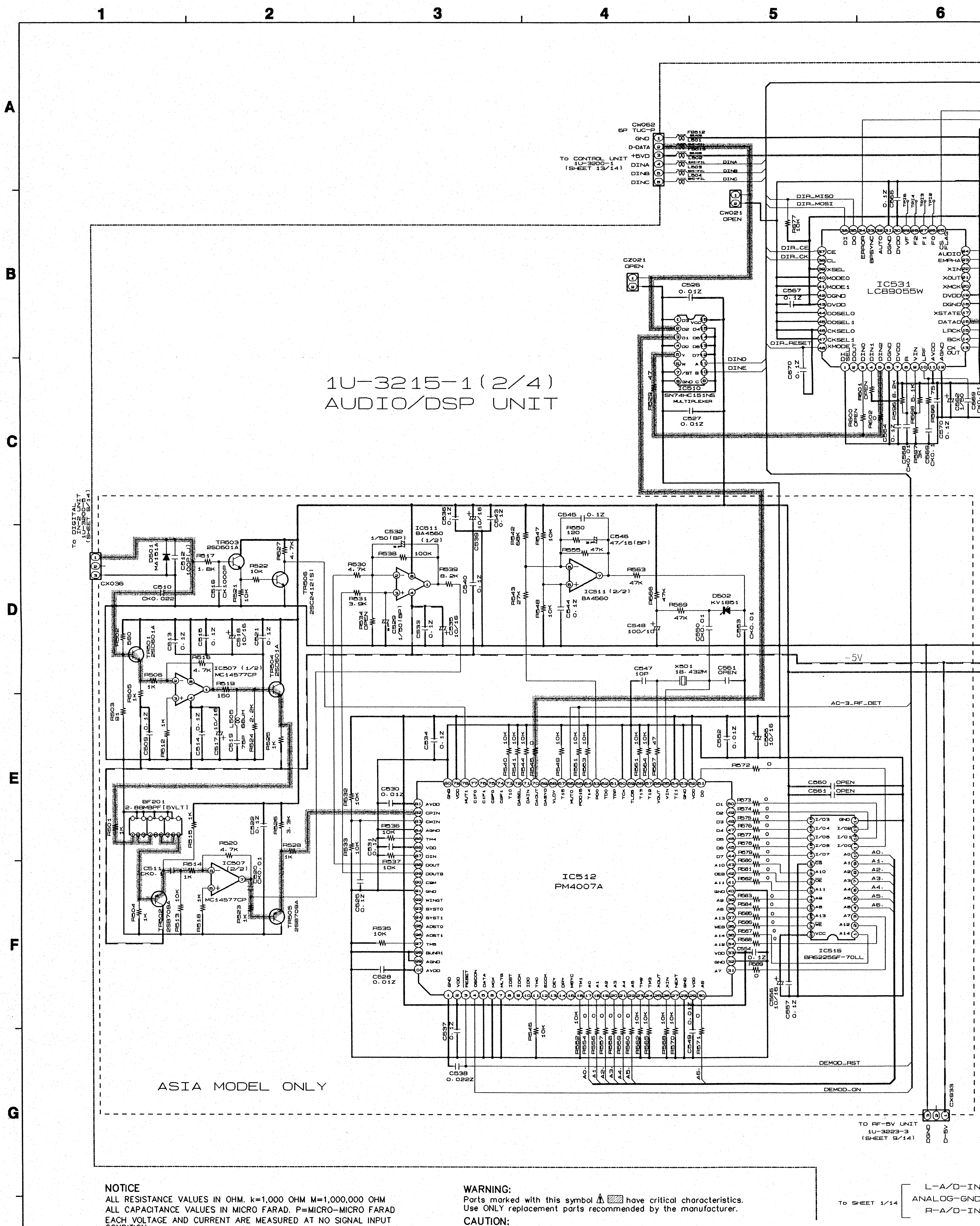
CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS (2/14)


1
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A
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C
D
E
F
G
H
1U-3215-1(2/4)
AUDIO/DSP UNIT
ASIA MODEL ONLY
CW062
6P TUC-P
GND
D-DATA
+5VD
DINA
DINB
DINC
To CONTROL UNIT
1U-3200-1
(SHEET 13/14)
CW021
OPEN
CZ021
OPEN
IC510
SN74HC151NS
MULTIPLEXER
IC531
LC89055W
DIR_MISO
DIR_MOSI
DIR_CE
DIR_CK
DIR_RESET
DIND
DINE
IC511
BA4560
IC511 (2/2)
BA4560
D502
KV1851
X501
18.432M
-5V
AC-3_RF_DET
IC512
PM4007A
IC516
BR6225GF-70LL
IC507 (1/2)
MC14577CP
IC507 (2/2)
MC14577CP
BF201
2.88MBPF(5VLT)
TR603
2SD601A
TR501
2SD601A
TR504
2SD601A
TR506
2SC2412(S)
TR502
2SB709A
TR505
2SB709A
D501
MA151A
CX036
To DIGITAL IN-2 UNIT 1U-3205-1 (SHEET 8/14)
DEMOD_RST
DEMOD_ON
CX933
To RF-5V UNIT
1U-3223-3
(SHEET 9/14)
DGND
D-5V
To SHEET 1/14
L-A/D-IN
ANALOG-GND
R-A/D-IN

NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
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CAUTION:
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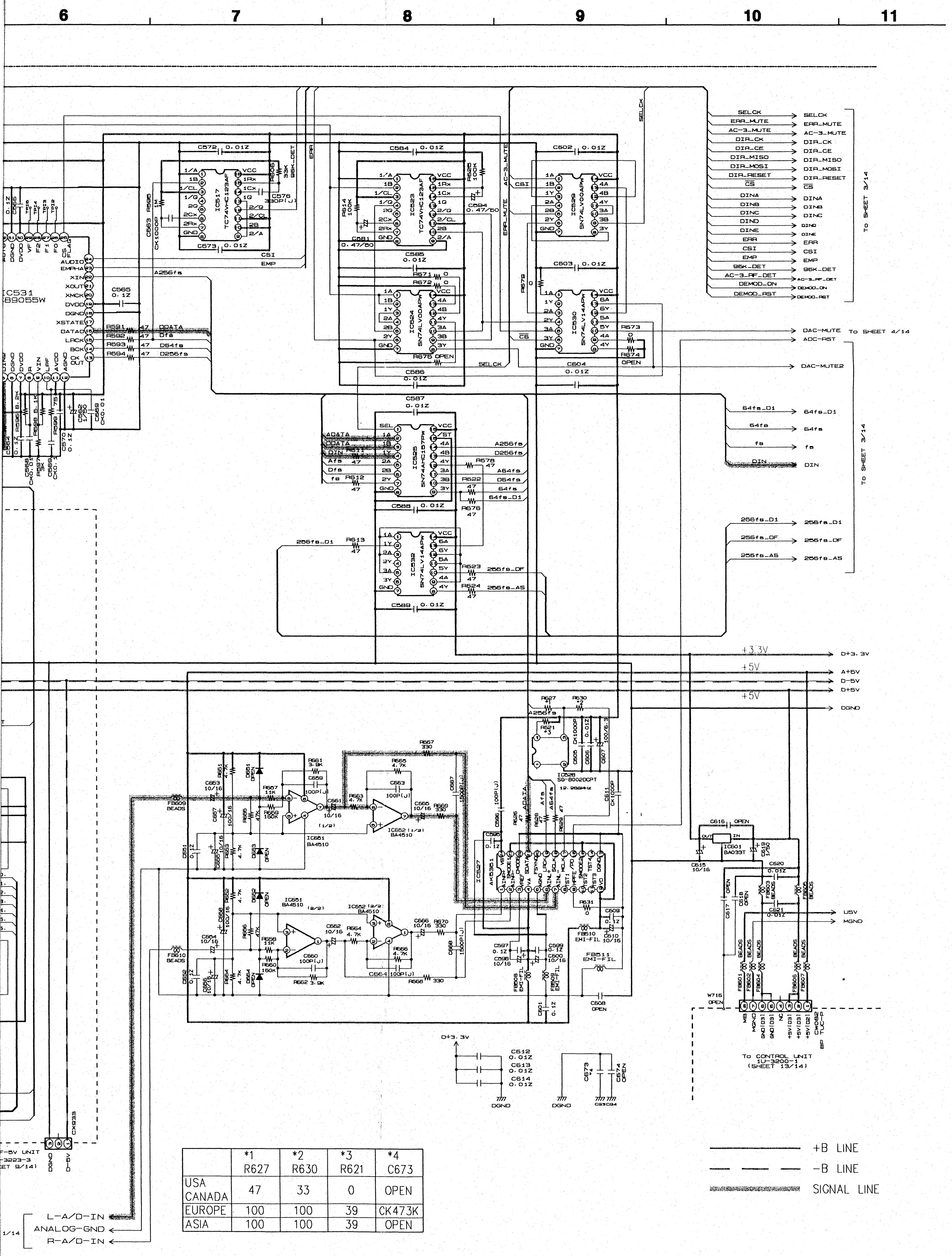
WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.


6
7
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11
IC517 TC74VHC123AF
IC523 TC74VHC123AF
IC529 SN74LV00APW
IC524 SN74LV00APW
IC530 SN74LV14APW
IC525 SN74AHC157PW
IC532 SN74LV14APW
IC531
IC551 BA4510
IC552 BA4510
IC526 SG-8002DCPT 12.288MHz
IC527 AK5351
IC601 BA033T
SELCK
ERR_MUTE
AC-3_MUTE
DIR_CK
DIR_CE
DIR_MISO
DIR_MOSI
DIR_RESET
CS
DINA
DINB
DINC
DIND
DINE
ERR
CSI
EMP
96K_DET
AC-3_RF_DET
DEMOD_ON
DEMOD_RST
To SHEET 3/14
DAC-MUTE
ADC-RST
To SHEET 4/14
DAC-MUTE2
64fs_D1
64fs
fs
DIN
256fs_D1
256fs_DF
256fs_AS
+3.3V
+5V
D+3.3V
A+5V
D-5V
D+5V
DGND
U5V
MGND
To CONTROL UNIT 1U-3200-1 (SHEET 13/14)
L-A/D-IN
ANALOG-GND
R-A/D-IN
1/14
D+3.3V
DGND

	*1 R627	*2 R630	*3 R621	*4 C673
USA CANADA	47	33	0	OPEN
EUROPE	100	100	39	CK473K
ASIA	100	100	39	OPEN

—— +B LINE

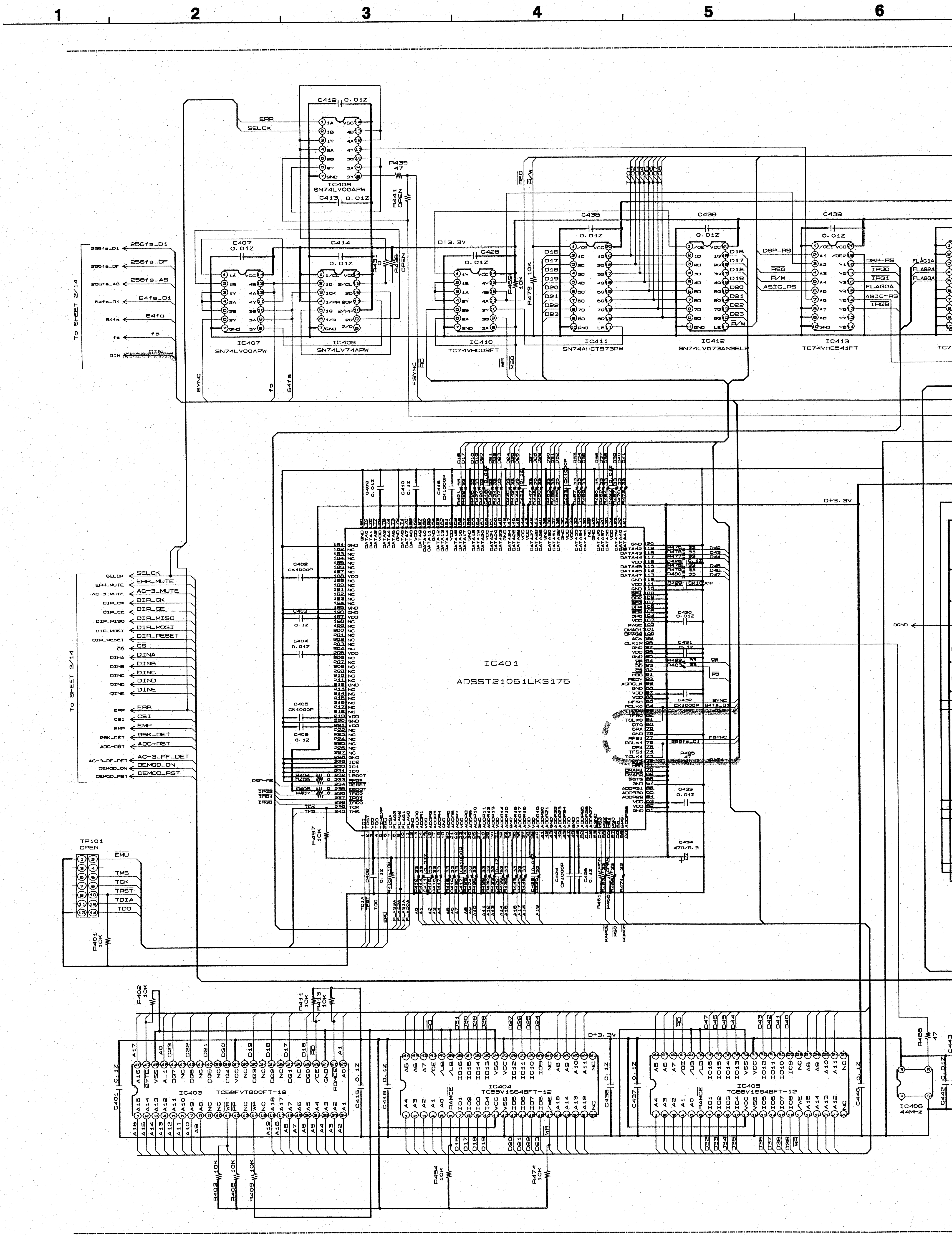
— — — -B LINE

▨ SIGNAL LINE

SCHEMATIC DIAGRAMS (2/14)

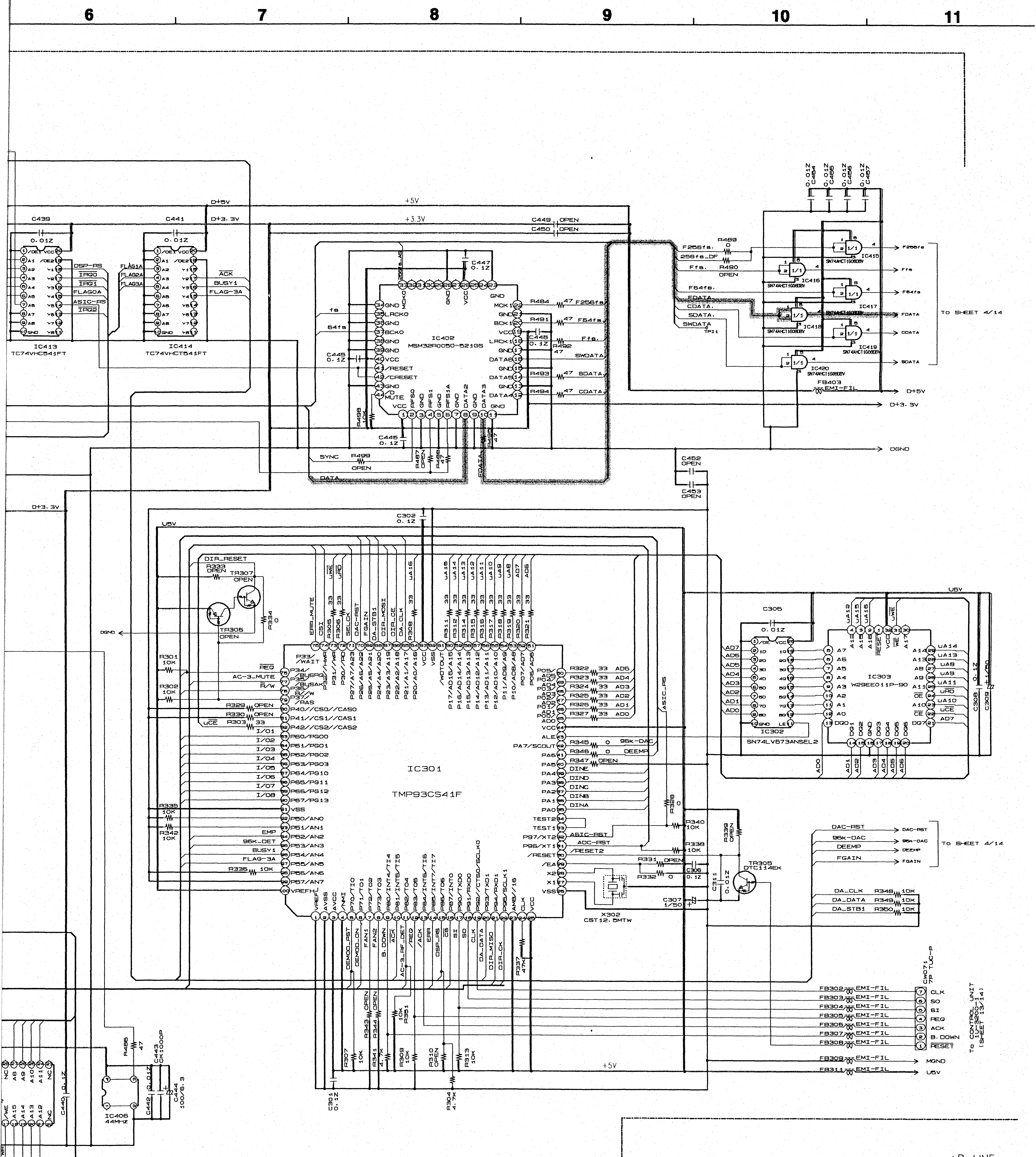
1U-3215-1 AUDIO / DSP UNIT

SCHEMATIC DIAGRAMS (3/14)



1
2
3
4
5
6
To SHEET 2/14
256fs_D1
256fs_DF
256fs_AS
64fs_D1
64fs
fs
DIN
C407 0.01Z
IC407 SN74LV00APW
C412 0.01Z
IC408 SN74LV00APW
C413 0.01Z
C414
IC409 SN74LV74APW
R435 47
R441 OPEN
ERR
SELCK
D+3.3V
C425 0.01Z
IC410 TC74VHC02FT
C436 0.01Z
IC411 SN74AHCT573PW
C438 0.01Z
IC412 SN74LV573ANSEL2
C439 0.01Z
IC413 TC74VHC541FT
DSP_RS
REQ
R/W
ASIC_RS
IRQ0
IRQ1
IRQ2
FLAG0A
FLAG1A
FLAG2A
FLAG3A
SYNC
FSYNC
RD
WR
MS0
f5
64fs
IC401
ADSST21061LKS176
To SHEET 2/14
SELCK
ERR_MUTE
AC-3_MUTE
DIR_CK
DIR_CE
DIR_MISO
DIR_MOSI
DIR_RESET
CS
DINA
DINB
DINC
DIND
DINE
ERR
CSI
EMP
96K_DET
ADC-RST
AC-3_RF_DET
DEMOD_ON
DEMOD_RST
DGND
TP101 OPEN
EMU
TMS
TCK
TRST
TDIA
TDO
R401 10K
R402 10K
R411 10K
R413 10K
IC403 TC58FVT800FT-12
IC404 TC55V1664BFT-12
IC405 TC55V1664BFT-12
C401 0.1Z
C415 0.1Z
C419 0.1Z
C435 0.1Z
C437 0.1Z
C440 0.1Z
R403 10K
R408 10K
R409 10K
R454 10K
R474 10K
R486 47
IC406 44MHZ
C434 470/6.3

NOTICE
ALL RESISTANCE VALUES I
ALL CAPACITANCE VALUES
EACH VOLTAGE AND CURR
CONDITION.
CIRCUIT AND PARTS ARE S
NOTICE.


6
7
8
9
10
11
IC413
TC74VHC541FT
IC414
TC74VHCT541FT
IC402
MSM32R0050-521GS
IC301
TMP93CS41F
IC302
SN74LV573ANSEL2
IC303
W29EE011P-90
IC415
IC416
IC417
IC418
IC419
IC420
SN74AHCT1G08DBV
TR305
DTC114EK
TR306
TR307
OPEN
X302
CST12.5MTW
IC406
44MHz
FB403
EMI-FIL
D+5V
D+3.3V
DGND
+5V
+3.3V
U5V
To SHEET 4/14
F256fs
Ffs
F64fs
FDATA
CDATA
SDATA
DAC-RST
96K-DAC
DEEMP
FGAIN
DA_CLK
DA_DATA
DA_STB1
CW071
7P TUC-P
CLK
SO
SI
REQ
ACK
B.DOWN
RESET
MGND
U5V
To CONTROL UNIT 1U-3209-1 (SHEET 13/14)
FB302
FB303
FB304
FB305
FB306
FB307
FB308
FB309
FB311

+B LINE

SIGNAL LINE

1U-3215-1(3/4)
AUDIO/DSP UNIT

NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

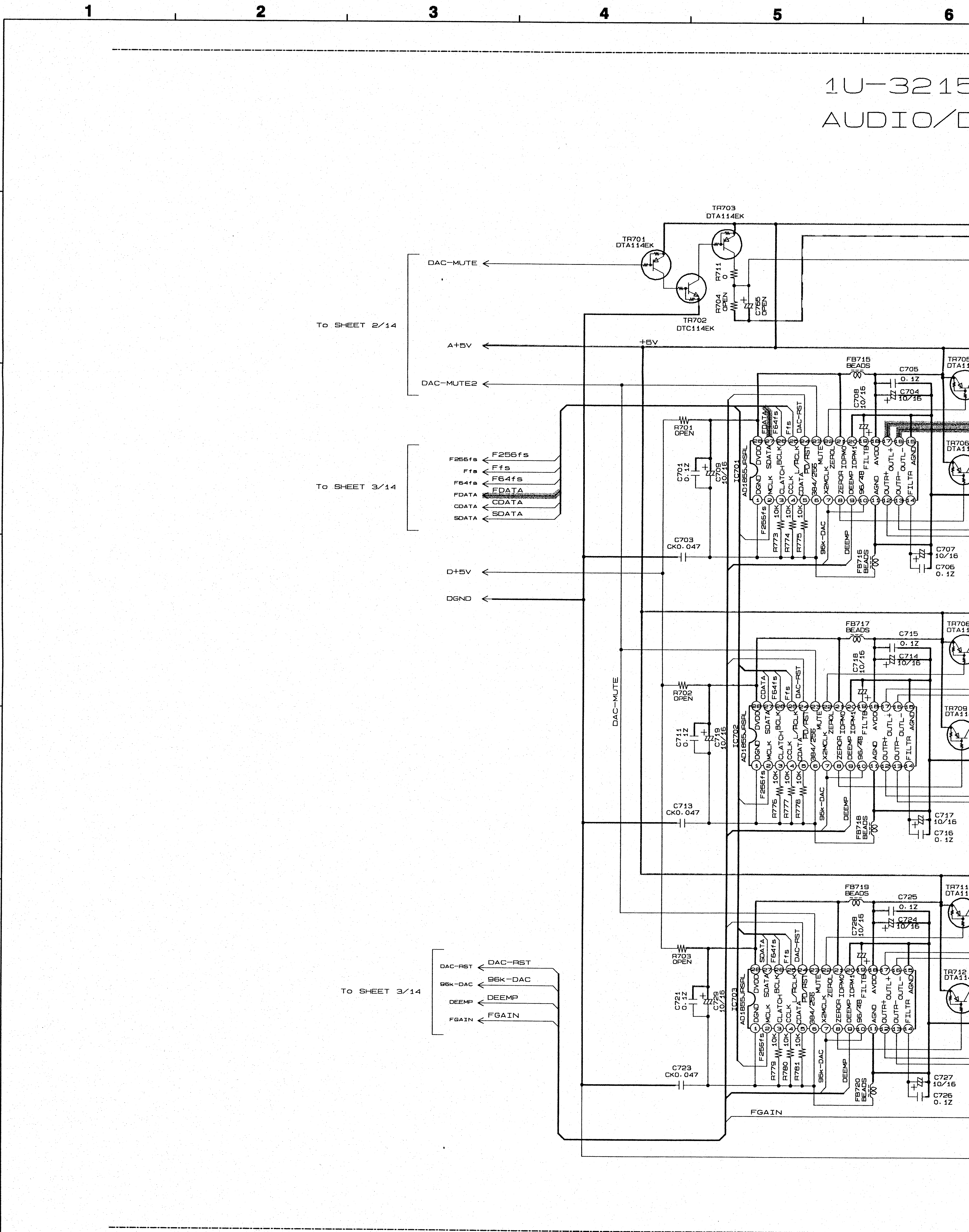
WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

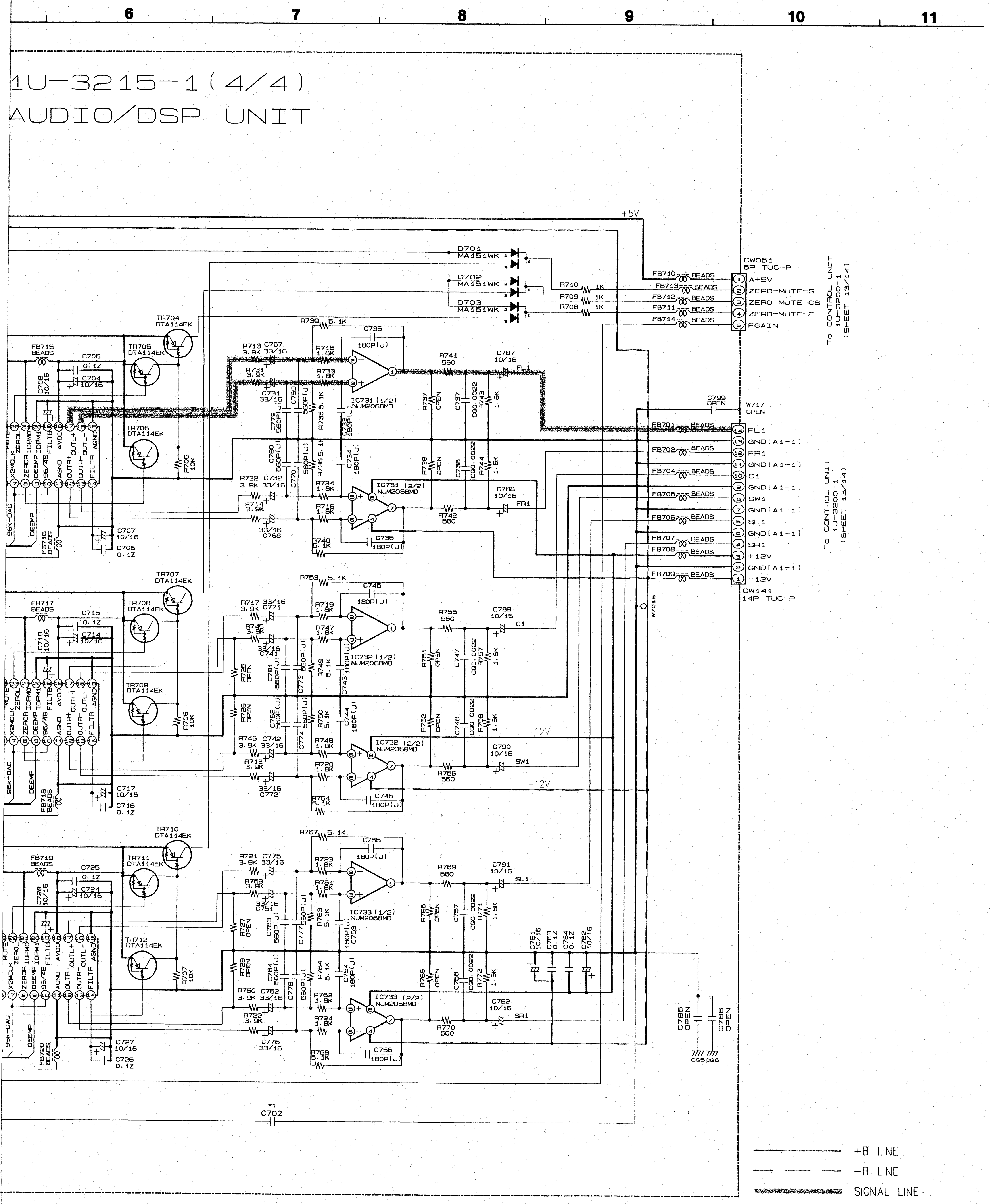
SCHEMATIC DIAGRAMS (3/14)
1U-3215-1 AUDIO / DSP UNIT

SCHEMATIC DIAGRAMS (4/14)


1
2
3
4
5
6
A
B
C
D
E
F
G
H
1U-3215
AUDIO/D
TR703
DTA114EK
TR701
DTA114EK
TR702
DTC114EK
R711
0
R704
OPEN
C765
OPEN
DAC-MUTE
To SHEET 2/14
A+5V
+5V
DAC-MUTE2
FB715
BEADS
C705
0.1Z
C704
10/16
C708
10/16
TR705
TR706
R701
OPEN
C701
0.1Z
C709
10/16
IC701
AD1855JRSRL
F256fs
Ffs
F64fs
FDATA
CDATA
SDATA
To SHEET 3/14
DGND
DVDD
SDATA
MCLK
CLATCH
BCLK
CCLK
L/RCLK
CDATA
PD/RST
384/256
MUTE
X2MCLK
ZEROL
ZEROR
IDPM0
DEEMP
IDPM1
96/48
FILTB
AGND
AVDD
OUTR+
OUTL+
OUTR-
OUTL-
FILTR
DAC-RST
R773
R774
R775
10K
96k-DAC
C703
CK0.047
C707
10/16
C706
0.1Z
FB716
BEADS
D+5V
DAC-MUTE
FB717
BEADS
C715
0.1Z
C714
10/16
C718
10/16
TR709
R702
OPEN
C711
0.1Z
C719
10/16
IC702
AD1855JRSRL
R776
R777
R778
C713
CK0.047
C717
10/16
C716
0.1Z
FB718
BEADS
FB719
BEADS
C725
0.1Z
C724
10/16
C728
10/16
TR711
TR712
R703
OPEN
C721
0.1Z
C729
10/16
IC703
AD1855JRSRL
DAC-RST
96k-DAC
DEEMP
FGAIN
R779
R780
R781
C723
CK0.047
C727
10/16
C726
0.1Z
FB720
BEADS
FGAIN

	*1 C702
USA CANADA	OPEN
EUROPE	CK1000P
ASIA	OPEN

NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARA
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.


6
7
8
9
10
11
1U-3215-1(4/4)
AUDIO/DSP UNIT
+5V
D701 MA151WK
D702 MA151WK
D703 MA151WK
R710 1K
R709 1K
R708 1K
CW051 5P TUC-P
FB710 BEADS
FB713 BEADS
FB712 BEADS
FB711 BEADS
FB714 BEADS
① A+5V
② ZERO-MUTE-S
③ ZERO-MUTE-CS
④ ZERO-MUTE-F
⑤ FGAIN
To CONTROL UNIT 1U-3200-1 (SHEET 13/14)
TR704 DTA114EK
TR705 DTA114EK
TR706 DTA114EK
TR707 DTA114EK
TR708 DTA114EK
TR709 DTA114EK
TR710 DTA114EK
TR711 DTA114EK
TR712 DTA114EK
IC731 (1/2) NJM2068MD
IC731 (2/2) NJM2068MD
IC732 (1/2) NJM2068MD
IC732 (2/2) NJM2068MD
IC733 (1/2) NJM2068MD
IC733 (2/2) NJM2068MD
FL1
FR1
C1
SW1
SL1
SR1
C799 OPEN
W717 OPEN
W7018
FB701 BEADS
FB702 BEADS
FB704 BEADS
FB705 BEADS
FB706 BEADS
FB707 BEADS
FB708 BEADS
FB709 BEADS
⑭ FL1
⑬ GND[A1-1]
⑫ FR1
⑪ GND[A1-1]
⑩ C1
⑨ GND[A1-1]
⑧ SW1
⑦ GND[A1-1]
⑥ SL1
⑤ GND[A1-1]
④ SR1
③ +12V
② GND[A1-1]
① -12V
CW141 14P TUC-P
To CONTROL UNIT 1U-3200-1 (SHEET 13/14)
+12V
-12V
FB715 BEADS
FB716 BEADS
FB717 BEADS
FB718 BEADS
FB719 BEADS
FB720 BEADS
MUTE
ZEROL
ZEROR
IDPM0
IDPM1
FILTB
AVDD
OUTL+
OUTL-
AGND
X2MCLK
DEEMP
96/48
OUTR+
OUTR-
FILTR
96k-DAC
C785 OPEN
C786 OPEN
CG5
CG6
*1 C702
+B LINE
-B LINE
SIGNAL LINE

IN OHM. k=1,000 OHM M=1,000,000 OHM
S IN MICRO FARAD. P=MICRO-MICRO FARAD
RENT ARE MEASURED AT NO SIGNAL INPUT

SUBJECT TO CHANGE WITHOUT PRIOR

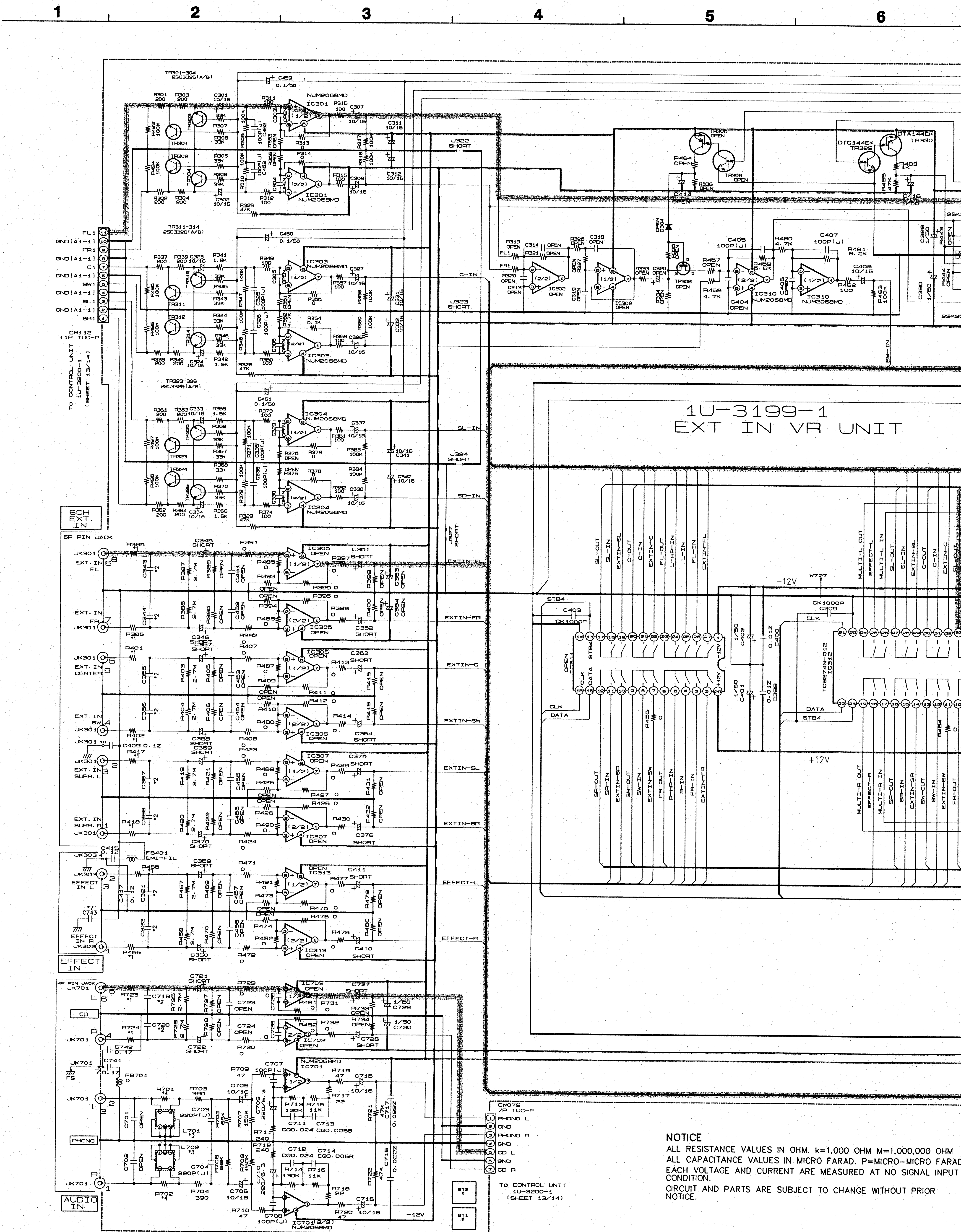
WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS (4/14)
1U-3215-1 AUDIO / DSP UNIT

SCHEMATIC DIAGRAMS (5/14)


1
2
3
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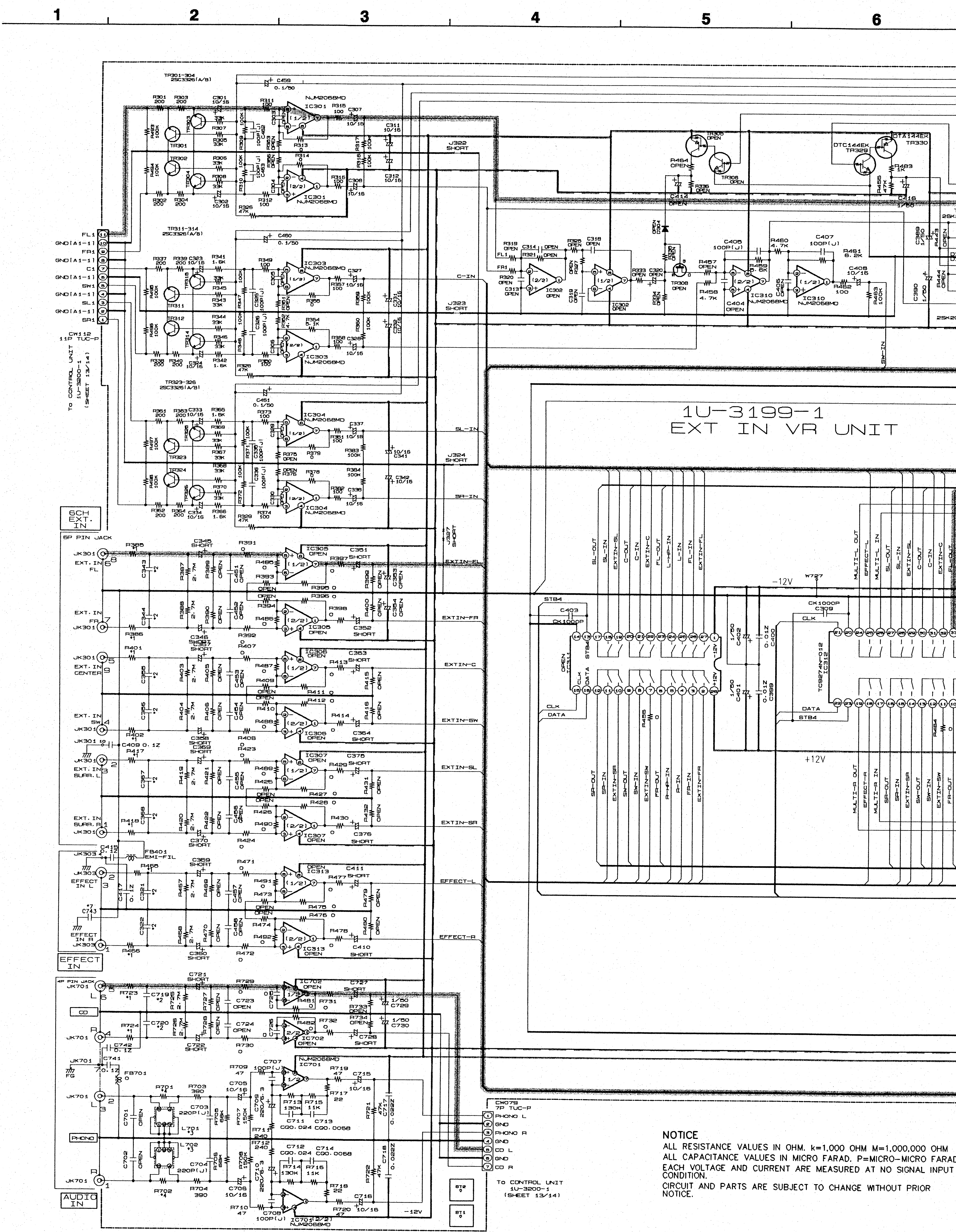
6
TR301-304 2SC3326(A/B)
IC301 NJM2068MD
TR311-314 2SC3326(A/B)
IC303 NJM2068MD
TR323-326 2SC3326(A/B)
IC304 NJM2068MD
FL1
GND(A1-1)
FR1
GND(A1-1)
C1
GND(A1-1)
SW1
GND(A1-1)
SL1
GND(A1-1)
SR1
CW112 11P TUC-P
To CONTROL UNIT 1U-3200-1 (SHEET 13/14)
6CH EXT. IN
6P PIN JACK
JK301
EXT. IN FL
EXT. IN FR
EXT. IN CENTER
EXT. IN SW
EXT. IN SURR. L
EXT. IN SURR. R
EFFECT IN L
EFFECT IN R
JK303
EFFECT IN
FB401 EMI-FIL
IC305
IC306
IC307
IC313
EXTIN-FL
EXTIN-FR
EXTIN-C
EXTIN-SW
EXTIN-SL
EXTIN-SR
EFFECT-L
EFFECT-R
C-IN
SL-IN
SR-IN
SW-IN
J322 SHORT
J323 SHORT
J324 SHORT
J327 SHORT
4P PIN JACK
JK701
CD
FG
PHONO
AUDIO IN
FB701
IC702
IC701 NJM2068MD
L701
L702
CW079 7P TUC-P
PHONO L
GND
PHONO R
GND
CD L
GND
CD R
To CONTROL UNIT 1U-3200-1 (SHEET 13/14)
BT1
BT2
-12V
+12V
1U-3199-1
EXT IN VR UNIT
IC311
IC312 TC9274N-012
STB4
CLK
DATA
W727
TR305
TR306
TR308
TR329 DTC144EK
TR330 DTA144EK
IC302
IC310 NJM2068MD
SL-OUT
SL-IN
EXTIN-SL
C-OUT
C-IN
EXTIN-C
FL-OUT
L-HP-IN
L-IN
FL-IN
EXTIN-FL
SR-OUT
SR-IN
EXTIN-SR
SW-OUT
SW-IN
EXTIN-SW
FR-OUT
R-HP-IN
R-IN
FR-IN
EXTIN-FR
MULTI-L OUT
EFFECT-L
MULTI-L IN
MULTI-R OUT
EFFECT-R
MULTI-R IN

NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

	*1	*2	*3	*4	*5	*6	*7
	R385,386,401,402,417,418 R465,466,723,724	C343,344,355,356,367,368 C321,322,719,720	L701,702	R701,702	C861,862	C869,870	C743
USA CANADA	100	OPEN	OPEN	SHORT	10/16	3.3/50	OPEN
EUROPE	470	CK330pF	150uH	1.3K	47/16	47/16	CK0.022Z
ASIA	470	CK330pF	150uH	1.3K	10/16	3.3/50	OPEN

SCHEMATIC DIAGRAMS (5/14)


1
2
3
4
5
6
1U-3199-1
EXT IN VR UNIT
6CH EXT. IN
6P PIN JACK
EFFECT IN
AUDIO IN
4P PIN JACK
CD
PHONO
CW112
11P TUC-P
To CONTROL UNIT 1U-3200-1 (SHEET 13/14)
CW079
7P TUC-P
PHONO L
GND
PHONO R
GND
CD L
GND
CD R
To CONTROL UNIT 1U-3200-1 (SHEET 13/14)
FL1
GND(A1-1)
FR1
GND(A1-1)
C1
GND(A1-1)
SW1
GND(A1-1)
SL1
GND(A1-1)
SR1
TR301-304 2SC3326(A/B)
TR311-314 2SC3326(A/B)
TR323-326 2SC3326(A/B)
NJM2068MD
IC301
IC302
IC303
IC304
IC305
IC306
IC307
IC310
IC313
IC701
IC702
IC312
TC9274N-012
IC311
TR305
TR306
TR308
DTC144EK TR329
DTA144EK TR330
C-IN
SL-IN
SR-IN
EXTIN-FL
EXTIN-FR
EXTIN-C
EXTIN-SW
EXTIN-SL
EXTIN-SR
EFFECT-L
EFFECT-R
JK301
EXT. IN FL
EXT. IN FR
EXT. IN CENTER
EXT. IN SW
EXT. IN SURR. L
EXT. IN SURR. R
JK303
EFFECT IN L
EFFECT IN R
JK701
FB401 EMI-FIL
FB701
-12V
+12V
CLK
DATA
STB4
W727
BT0
BT1

NOTICE

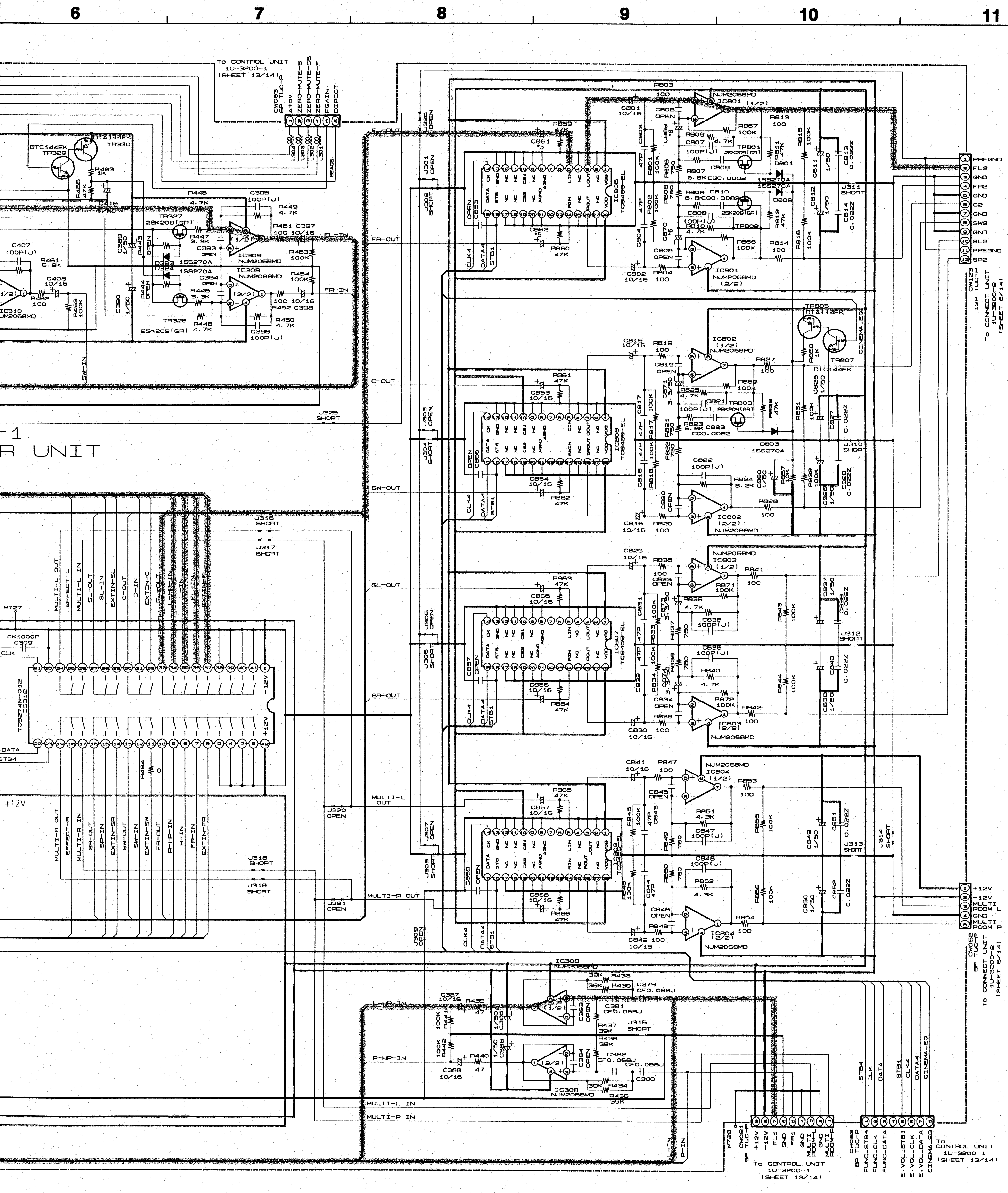
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD

EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

	*1 R385,386,401,402,417,418 R465,466,723,724	*2 C343,344,355,356,367,368 C321,322,719,720	*3 L701,702	*4 R701,702	*5 C861,862	*6 C869,870	*7 C743
USA CANADA	100	OPEN	OPEN	SHORT	10/16	3.3/50	OPEN
EUROPE	470	CK330pF	150uH	1.3K	47/16	47/16	CK0.022Z
ASIA	470	CK330pF	150uH	1.3K	10/16	3.3/50	OPEN


6
7
8
9
10
11
To CONTROL UNIT 1U-3200-1 (SHEET 13/14)
CW063 8P TUC-P
+12V
ZERO-MUTE-S
ZERO-MUTE-CS
ZERO-MUTE-F
FGAIN
DIRECT
DTC144EK TR329
DTA144EK TR330
TR327 2SK209(GR)
TR328 2SK209(GR)
IC309 NJM2068MD
IC310 NJM2068MD
FL-OUT
FR-OUT
FL-IN
FR-IN
C-OUT
SW-OUT
SL-OUT
SR-OUT
MULTI-L OUT
MULTI-R OUT
SW-IN
R UNIT
IC312 TC9274N-012
CLK
DATA
STB4
+12V
-12V
W727
IC801 NJM2068MD
IC802 NJM2068MD
IC803 NJM2068MD
IC804 NJM2068MD
IC805 TC9459-EL
IC806 TC9459-EL
IC807 TC9459-EL
IC808 TC9459-EL
TR801 2SK209(GR)
TR802
TR803 2SK209(GR)
TR805 DTA114ER
TR807 DTC144EK
CINEMA_EQ
PREGND
FL2
GND
FR2
C2
SW2
SL2
SR2
CW123 12P TUC-P To CONNECT UNIT 1U-3200-2 (SHEET 6/14)
+12V
-12V
MULTI ROOM L
GND
MULTI ROOM R
CW052 5P TUC-P To CONNECT UNIT 1U-3200-2 (SHEET 6/14)
IC308 NJM2068MD
L-HP-IN
R-HP-IN
MULTI-L IN
MULTI-R IN
W728
CW064 9P TUC-P
To CONTROL UNIT 1U-3200-1 (SHEET 13/14)
CW063 8P TUC-P
FUNC_STB4
FUNC_CLK
FUNC_DATA
E.VOL_STB1
E.VOL_CLK
E.VOL_DATA
CINEMA_EQ
To CONTROL UNIT 1U-3200-1 (SHEET 13/14)

M. k=1,000 OHM M=1,000,000 OHM
ICRO FARAD. P=MICRO-MICRO FARAD
ARE MEASURED AT NO SIGNAL INPUT

CT TO CHANGE WITHOUT PRIOR

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

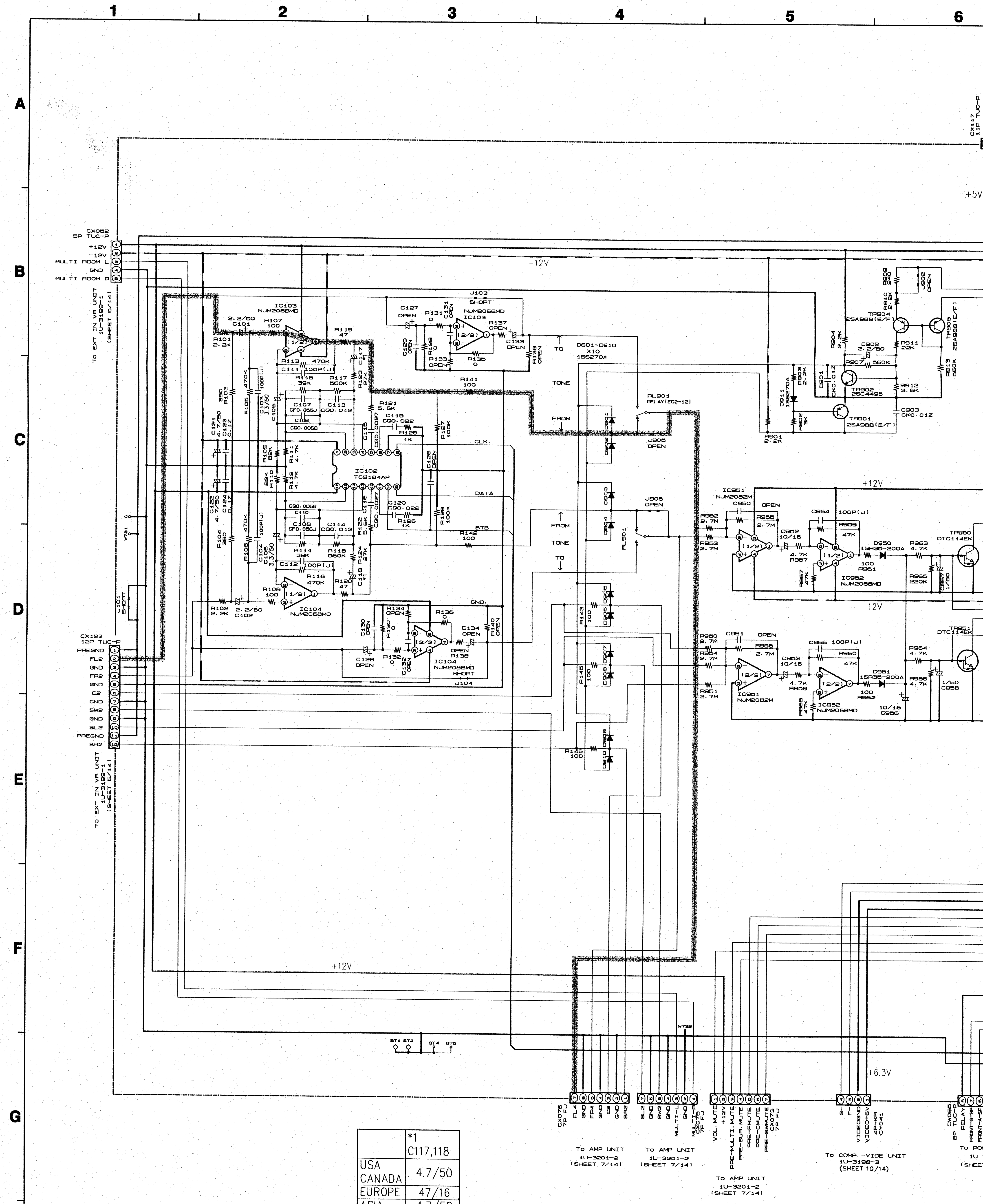
——— +B LINE

— — — -B LINE

▨ SIGNAL LINE

SCHEMATIC DIAGRAMS (5/14)
1U-3199-1 EXT IN VR UNIT

SCHEMATIC DIAGRAMS (6/14)


1
2
3
4
5
6
A
B
C
D
E
F
G
H
CX082
5P TUC-P
+12V
-12V
MULTI ROOM L
GND
MULTI ROOM R
To EXT IN VR UNIT
1U-3199-1
(SHEET 8/14)
-12V
IC103
NJM2068MD
2.2/50
C101
R107
100
R101
2.2K
R119
47
R113
470K
C111
100P(J)
R115
39K
R117
560K
R123
27K
C117
C107
CFO.056J
C113
CQO.012
C109
CQO.0068
R121
5.6K
C119
CQO.022
R125
1K
R127
100K
IC102
TC9184AP
R109
82K
R111
4.7K
R110
82K
R112
4.7K
C121
4.7/50
C123
0.1Z
C122
4.7/50
C124
0.1Z
R103
390
R104
390
R105
470K
R106
470K
C103
3.3/50
C104
3.3/50
C105
C106
C110
C108
CFO.056J
C114
CQO.012
C115
C116
C120
CQO.022
R126
1K
R128
100K
C126
OPEN
R114
39K
R118
560K
R122
5.6K
R124
27K
C112
100P(J)
R116
470K
R120
47
C118
R108
100
IC104
NJM2068MD
R102
2.2K
2.2/50
C102
J103
SHORT
C127
OPEN
R131
0
C131
OPEN
IC103
NJM2068MD
R137
OPEN
C133
OPEN
R139
OPEN
C129
OPEN
R129
R133
OPEN
R135
0
R141
100
CLK.
DATA
STB
R142
100
GND.
R134
OPEN
R136
C130
OPEN
R130
0
C134
OPEN
R140
OPEN
OPEN
R138
IC104
NJM2068MD
SHORT
J104
C128
OPEN
R132
0
C132
OPEN
J101
SHORT
W731
CX123
12P TUC-P
PREGND
FL2
GND
FR2
GND
C2
GND
SW2
GND
SL2
PREGND
SR2
To EXT IN VR UNIT
1U-3199-1
(SHEET 8/14)
TO
TONE
FROM
FROM
TONE
TO
D601~D610
X10
1SS270A
RL901
RELAY(EC2-12)
J905
OPEN
J906
OPEN
RL901
D901
D902
D903
D904
D905
D906
D907
D908
D909
D910
R143
100
R145
100
R146
100
+12V
-12V
+5V
CX117
11P TUC-P
R909
240
R910
2.2K
J902
OPEN
TR904
2SA988(E/F)
TR905
2SA988(E/F)
R904
2.2K
C902
2.2/50
R911
22K
R907
560K
R913
560K
R903
2.2K
C901
CKO.01Z
TR902
2SC4495
R912
3.6K
D911
1SS270A
R902
3K
TR901
2SA988(E/F)
C903
CKO.01Z
R901
2.2K
+12V
IC951
NJM2082M
C950
OPEN
R952
2.7M
R955
2.7M
C952
10/16
C954
100P(J)
R959
47K
R953
2.7M
R957
4.7K
R967
4.7K
IC952
NJM2068MD
D950
1SR35-200A
R961
100
R963
4.7K
R965
220K
C957
1/50
TR950
DTC114EK
-12V
R950
2.7M
C951
OPEN
R956
2.7M
C955
100P(J)
R960
47K
R954
2.7M
C953
10/16
R951
2.7M
IC951
NJM2082M
R958
4.7K
R968
47K
IC952
NJM2068MD
D951
1SR35-200A
R962
100
C956
10/16
R964
4.7K
R966
4.7K
C958
1/50
TR951
DTC114EK
+12V
ST1
ST3
ST4
ST5
W732
+6.3V
CX076
7P FJ
FL4
GND
FR4
GND
C2
GND
SR2
SL2
GND
SW2
GND
MULTI-L
GND
MULTI-R
CX075
7P FJ
VOL. MUTE
+12V
PRE-MULTI MUTE
PRE-SUR. MUTE
PRE-FMUTE
PRE-CMUTE
PRE-SWMUTE
CX073
7P FJ
G-
F-
VIDEOGND
VIDEO+5V
4P-KR
CY041
CW085
8P TUC-P
RELAY
FRONT-B-SP
FRONT-A-SP
To AMP UNIT
1U-3201-2
(SHEET 7/14)
To AMP UNIT
1U-3201-2
(SHEET 7/14)
To AMP UNIT
1U-3201-2
(SHEET 7/14)
To COMP.-VIDE UNIT
1U-3198-3
(SHEET 10/14)
To PO
1U-
(SHEE

	*1 C117,118
USA CANADA	4.7/50
EUROPE	47/16
ASIA	4.7/50

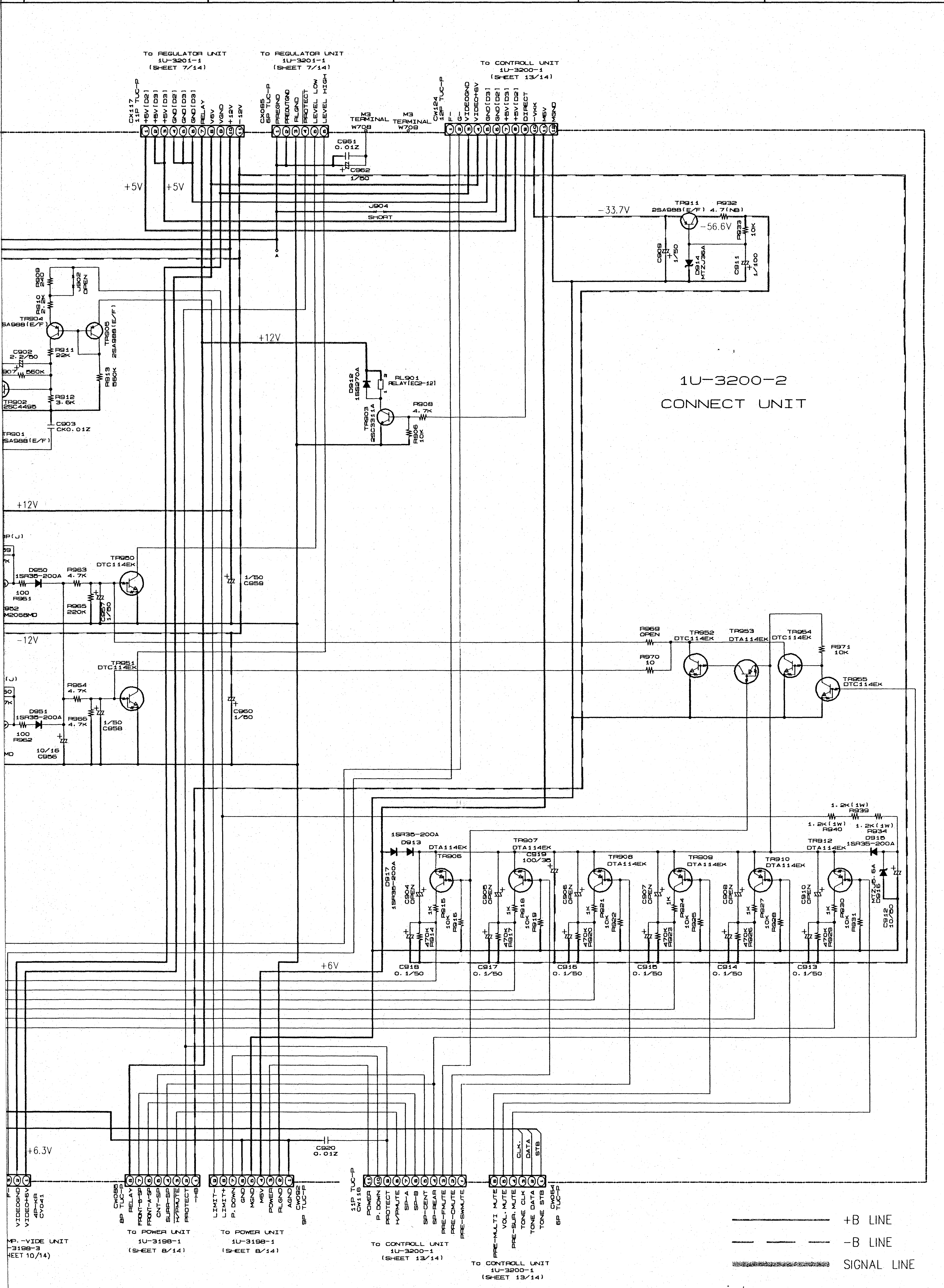
NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO

EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIO NOTICE.


To REGULATOR UNIT 1U-3201-1 (SHEET 7/14)
To REGULATOR UNIT 1U-3201-1 (SHEET 7/14)
To CONTROLL UNIT 1U-3200-1 (SHEET 13/14)
CX117 11P TUC-P
CX065 6P TUC-P
CW124 12P TUC-P
M3 TERMINAL W708
M3 TERMINAL W709
C961 0.01Z
C962 1/50
J904 SHORT
+5V
+5V
+12V
-33.7V
-56.6V
TR911 2SA988(E/F)
R932 4.7(NB)
R933 10K
C909 1/50
D914 MTZJ36A
C911 1/100
1U-3200-2
CONNECT UNIT
D912 1SS270A
RL901 RELAY(EC2-12)
TR903 2SC3311A
R908 4.7K
R906 10K
TR904 2SA988(E/F)
TR905 2SA988(E/F)
R909 240
R910 2.2K
J902 OPEN
C902 2.2/50
R911 22K
R913 680K
560K
R912 3.6K
TR902 2SC4495
TR901 2SA988(E/F)
C903 CK0.01Z
+12V
-12V
TR950 DTC114EK
D950 1SR35-200A
R963 4.7K
R961 100
R965 220K
C957 1/50
C959 1/50
TR951 DTC114EK
D951 1SR35-200A
R964 4.7K
R966 4.7K
R962 100
C958 1/50
C956 10/16
C960 1/50
R969 OPEN
R970 10
TR952 DTC114EK
TR953 DTA114EK
TR954 DTC114EK
R971 10K
TR955 DTC114EK
R939 1.2K(1W)
R940 1.2K(1W)
R934 1.2K(1W)
D915 1SR35-200A
D916 MTZJ5.6A
C912 10/50
D913 1SR35-200A
D917 1SR35-200A
TR906 DTA114EK
TR907 DTA114EK
TR908 DTA114EK
TR909 DTA114EK
TR910 DTA114EK
TR912 DTA114EK
C919 100/35
C918 0.1/50
C917 0.1/50
C916 0.1/50
C915 0.1/50
C914 0.1/50
C913 0.1/50
+6V
+6.3V
C920 0.01Z
CY041 4P-KR
CW085 8P TUC-P
CW092 8P TUC-P
CW116 11P TUC-P
CW054 8P TUC-P
To POWER UNIT 1U-3198-1 (SHEET 8/14)
To POWER UNIT 1U-3198-1 (SHEET 8/14)
To CONTROLL UNIT 1U-3200-1 (SHEET 13/14)
To CONTROLL UNIT 1U-3200-1 (SHEET 13/14)
MP.-VIDE UNIT -3198-3 HEET 10/14)

——————— +B LINE

— — — — +B LINE

▨▨▨▨ SIGNAL LINE

OHM. k=1,000 OHM M=1,000,000 OHM
MICRO FARAD. P=MICRO-MICRO FARAD
ARE MEASURED AT NO SIGNAL INPUT

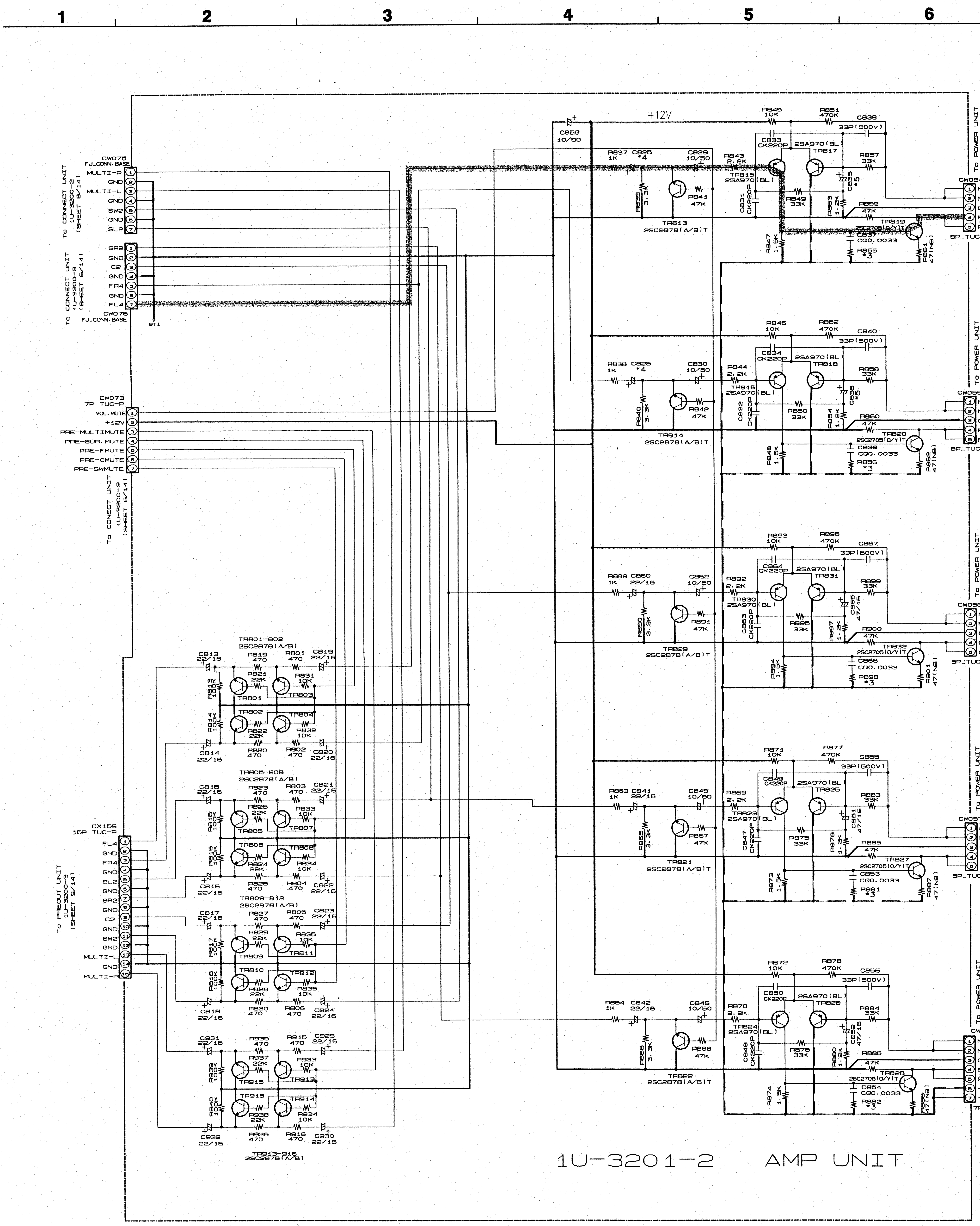
JECT TO CHANGE WITHOUT PRIOR

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS (6/14)
1U-3200-2 CONNECT UNIT


1
2
3
4
5
6
1U-3201-2 AMP UNIT
+12V
To CONNECT UNIT 1U-3200-2 (SHEET 8/14)
CW075 FJ_CONN. BASE
MULTI-R
GND
MULTI-L
GND
SW2
GND
SL2
SR2
GND
C2
GND
FR4
GND
FL4
CW076 FJ_CONN. BASE
BT1
CW073 7P TUC-P
VOL. MUTE
+12V
PRE-MULTIMUTE
PRE-SUR. MUTE
PRE-FMUTE
PRE-CMUTE
PRE-SWMUTE
CX156 15P TUC-P
FL4
GND
FR4
GND
SL2
GND
SR2
GND
C2
GND
SW2
GND
MULTI-L
GND
MULTI-R
To PREOUT UNIT 1U-3200-3 (SHEET 9/14)
TR801-802 2SC2878(A/B)
TR805-808 2SC2878(A/B)
TR809-812 2SC2878(A/B)
TR913-916 2SC2878(A/B)
C813 22/16
C814 22/16
C815 22/16
C816 22/16
C817 22/16
C818 22/16
C819 22/16
C820 22/16
C821 22/16
C822 22/16
C823 22/16
C824 22/16
C931 22/16
C932 22/16
C929 22/16
C930 22/16
R813 10K
R814 10K
R815 10K
R816 10K
R817 10K
R818 10K
R939 10K
R940 10K
R819 470
R820 470
R801 470
R802 470
R823 470
R803 470
R826 470
R804 470
R827 470
R805 470
R830 470
R806 470
R935 470
R915 470
R936 470
R916 470
R821 22K
R822 22K
R825 22K
R824 22K
R829 22K
R828 22K
R937 22K
R938 22K
R831 10K
R832 10K
R833 10K
R834 10K
R835 10K
R836 10K
R933 10K
R934 10K
TR801
TR802
TR803
TR804
TR805
TR806
TR807
TR808
TR809
TR810
TR811
TR812
TR913
TR914
TR915
TR916
C859 10/50
R837 1K
C825 *4
C829 10/50
R839 3.3K
R841 47K
TR813 2SC2878(A/B)T
R845 10K
R851 470K
C839 33P(500V)
C833 CK220P
2SA970(BL)
TR817
R843 2.2K
TR815 2SA970(BL)
R857 33K
C831 CK220P
R849 33K
R863 1.2K
C835 *5
R859 47K
TR819 2SC2705(O/Y)T
C837 C00.0033
R855 *3
R847 1.5K
R861 47(NB)
CW054
5P_TUC
To POWER UNIT
R838 1K
C826 *4
C830 10/50
R840 3.3K
R842 47K
TR814 2SC2878(A/B)T
R846 10K
R852 470K
C840 33P(500V)
C834 CK220P
2SA970(BL)
TR818
R844 2.2K
TR816 2SA970(BL)
R858 33K
C832 CK220P
R850 33K
R854 1.2K
C836 *5
R860 47K
TR820 2SC2705(O/Y)T
C838 C00.0033
R856 *3
R848 1.5K
R862 47(NB)
CW055
5P_TUC
To POWER UNIT
R889 1K
C850 22/16
C862 10/50
R890 3.3K
R891 47K
TR829 2SC2878(A/B)T
R893 10K
R896 470K
C867 33P(500V)
C864 CK220P
2SA970(BL)
TR831
R892 2.2K
TR830 2SA970(BL)
R899 33K
C863 CK220P
R895 33K
R897 1.2K
C865 47/16
R900 47K
TR832 2SC2705(O/Y)T
C866 C00.0033
R898 *3
R894 1.5K
R901 47(NB)
CW056
5P_TUC
To POWER UNIT
R853 1K
C841 22/16
C845 10/50
R865 3.3K
R867 47K
TR821 2SC2878(A/B)T
R871 10K
R877 470K
C855 33P(500V)
C849 CK220P
2SA970(BL)
TR825
R869 2.2K
TR823 2SA970(BL)
R883 33K
C847 CK220P
R875 33K
R879 1.2K
C851 47/16
R885 47K
TR827 2SC2705(O/Y)T
C853 C00.0033
R881 *3
R873 1.5K
R887 47(NB)
CW057
5P_TUC
To POWER UNIT
R854 1K
C842 22/16
C846 10/50
R866 3.3K
R868 47K
TR822 2SC2878(A/B)T
R872 10K
R878 470K
C856 33P(500V)
C850 CK220P
2SA970(BL)
TR826
R870 2.2K
TR824 2SA970(BL)
R884 33K
C848 CK220P
R876 33K
R880 1.2K
C852 47/16
R886 47K
TR828 2SC2705(O/Y)T
C854 C00.0033
R882 *3
R874 1.5K
R888 47(NB)
To POWER UNIT

	*1 F11, 12, 13	*2 F14	*3 R855,856,898 R881,882	*4 C825,826	*5 C835,836
*USA	3. 15A/125V	2. 5A/125V	470	22/16	47/16
EUROPE	3. 15A/250V	2. 5A/250V	330	100/16	220/16
ASIA	3. 15A/250V	2. 5A/250V	330	22/16	47/16

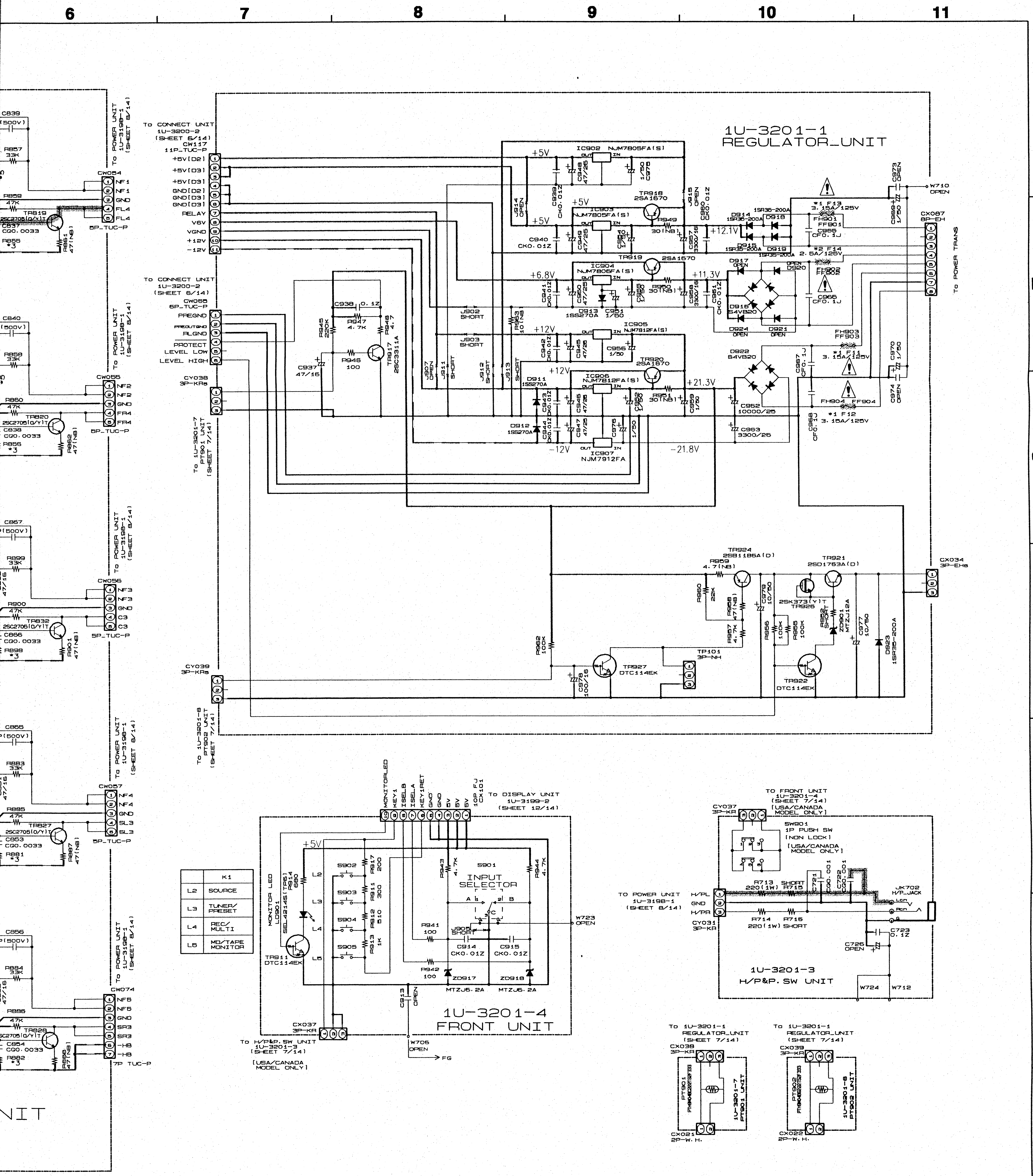
NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD

EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.


6
7
8
9
10
11
1U-3201-1
REGULATOR_UNIT
To CONNECT UNIT
1U-3200-2
(SHEET 6/14)
CW117
11P_TUC-P
+5V(D2)
+5V(D3)
+5V(D3)
GND(D2)
GND(D3)
GND(D3)
RELAY
V6V
VGND
+12V
-12V
CW065
6P_TUC-P
PREGND
PREOUTGND
FLGND
PROTECT
LEVEL LOW
LEVEL HIGH
CY038
3P-KR
IC902 NJM7805FA(S)
IC903 NJM7805FA(S)
IC904 NJM7805FA(S)
IC905 NJM7812FA(S)
IC906 NJM7812FA(S)
IC907 NJM7912FA
TR918 2SA1670
TR919 2SA1670
TR920 2SA1670
TR917 2SC3311A
+5V
+6.8V
+11.3V
+12.1V
+12V
+21.3V
-12V
-21.8V
D914 1SR35-200A
D915 1SR35-200A
D918 1SR35-200A
D919 1SR35-200A
D916 S4VB20
D922 S4VB20
D911 1SS270A
D912 1SS270A
D913 1SS270A
C952 10000/25
C953 3300/25
*1 F13 3.15A/125V
*2 F14 2.5A/125V
*1 F11 3.15A/125V
*1 F12 3.15A/125V
FH901 FF901
FH902 FF902
FH903 FF903
FH904 FF904
CX087
8P-EH
To POWER TRANS
W710 OPEN
J902 SHORT
J903 SHORT
J907 OPEN
J911 SHORT
J912 SHORT
J913 SHORT
J914 OPEN
J915 OPEN
TR924 2SB1186A(D)
TR921 2SD1763A(D)
TR925 2SK373(Y)T
TR927 DTC114EK
TR922 DTC114EK
ZD901 MTZJ12A
D923 1SR35-200A
TP101 3P-NH
CX034 3P-EH
CY039 3P-KR
To 1U-3201-7 PT901 UNIT (SHEET 7/14)
To 1U-3201-8 PT902 UNIT (SHEET 7/14)
To POWER UNIT 1U-3198-1 (SHEET 8/14)
CW054
CW055
CW056
CW057
CW074
5P_TUC-P
7P TUC-P
To DISPLAY UNIT 1U-3199-2 (SHEET 12/14)
MONITORLED
KEY1
ISELB
ISELA
KEY1RET
GND
5V
10P FJ CX101
S901 INPUT SELECTOR
S902
S903
S904
S905
TR911 DTC114EK
MONITOR LED LD901 SEL4214S(TR5)
ZD917 MTZJ6.2A
ZD918 MTZJ6.2A
W723 OPEN
W705 OPEN
FG
CX037 3P-KR
To H/P&P.SW UNIT 1U-3201-3 (SHEET 7/14)
[USA/CANADA MODEL ONLY]
1U-3201-4
FRONT UNIT
K1
L2 SOURCE
L3 TUNER/PRESET
L4 REC/MULTI
L5 MD/TAPE MONITOR
TO FRONT UNIT 1U-3201-4 (SHEET 7/14) [USA/CANADA MODEL ONLY]
CY037 3P-KR
SW901 1P PUSH SW (NON LOCK) [USA/CANADA MODEL ONLY]
TO POWER UNIT 1U-3198-1 (SHEET 8/14)
H/PL
GND
H/PR
CY031 3P-KR
R713 SHORT 220(1W) R715
R714 R716 220(1W) SHORT
JK702 H/P_JACK
1U-3201-3
H/P&P. SW UNIT
W724
W712
To 1U-3201-1 REGULATOR_UNIT (SHEET 7/14)
CX038 3P-KR
CX039 3P-KR
PT901
PT902
1U-3201-7 PT901 UNIT
1U-3201-8 PT902 UNIT
CX021 2P-W.H.
CX022 2P-W.H.
NIT

0 OHM M=1,000,000 OHM
D. P=MICRO-MICRO FARAD
RED AT NO SIGNAL INPUT

ANGE WITHOUT PRIOR

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

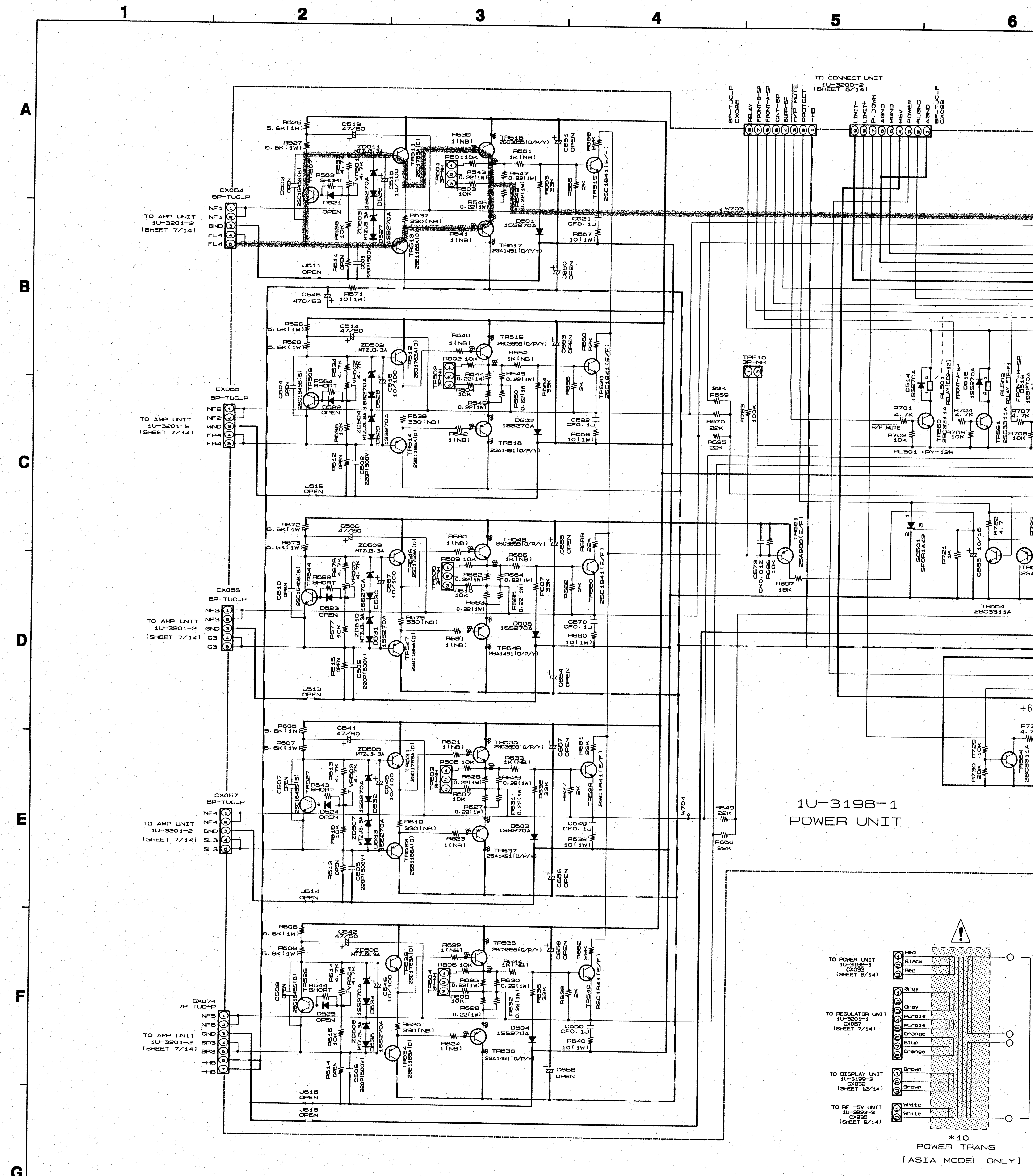
CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

—— +B LINE
— — — -B LINE
▨ SIGNAL LINE

SCHEMATIC DIAGRAMS (7/14)
1U-3201-1 REGULATOR UNIT / 1U-3201-2 AMP UNIT
1U-3201-3 H/P & P.SW UNIT / 1U-3201-4 FRONT UNIT

SCHEMATIC DIAGRAMS (8/14)


1
2
3
4
5
6
A
B
C
D
E
F
G
TO CONNECT UNIT
1U-3200-2
(SHEET 5/14)
8P-TUC_P
CX085
RELAY
FRONT-B-SP
FRONT-A-SP
CNT-SP
SUR-SP
H/P MUTE
PROTECT
-HB
LIMIT-
LIMIT+
P. DOWN
AGND
MGND
M6V
POWER
RLGND
AGND
8P-TUC_P
CX092
CX054
5P-TUC_P
NF1
GND
FL4
TO AMP UNIT
1U-3201-2
(SHEET 7/14)
CX055
5P-TUC_P
NF2
FR4
CX056
NF3
C3
CX057
NF4
SL3
CX074
7P TUC-P
NF5
SR3
-HB
R525
5.6K(1W)
R527
C513
47/50
ZD511
MTZJ3.3A
TR511
2SD1763A(D)
TR515
2SC3855(O/P/Y)
TR519
2SC1841(E/F)
TR507
2SC1845(E)
TR513
2SB1186A(D)
TR517
2SA1491(O/P/Y)
R539
1(NB)
R651
1K(NB)
R501 10K
R543
0.22(1W)
R547
0.22(1W)
R503
10K
R545
0.22(1W)
R537
330(NB)
R541
1(NB)
D501
1SS270A
D521
OPEN
R563
SHORT
VR501
4.7K
C515
10/100
C521
CFO. 1J
R557
10(1W)
C650
OPEN
C651
OPEN
R559
22K
J511
OPEN
C501
220P(500V)
W703
C646
470/63
R571
10(1W)
TR512
2SD1763A(D)
TR516
2SC3855(O/P/Y)
TR520
2SC1841(E/F)
TR508
2SC1845(E)
TR514
2SB1186A(D)
TR518
2SA1491(O/P/Y)
J512
OPEN
TP510
3P-NH
R569
22K
R570
22K
R695
22K
R753
100K
TR546
2SD1763A(D)
TR548
2SC3855(O/P/Y)
TR550
2SC1841(E/F)
TR544
2SC1845(E)
TR547
2SB1186A(D)
TR549
2SA1491(O/P/Y)
J513
OPEN
TR551
2SA988(E/F)
R697
15K
C573
TR531
2SD1763A(D)
TR535
2SC3855(O/P/Y)
TR539
2SC1841(E/F)
TR527
2SC1845(E)
TR533
2SB1186A(D)
TR537
2SA1491(O/P/Y)
J514
OPEN
W704
R649
22K
R650
22K
TR532
2SD1763A(D)
TR536
2SC3855(O/P/Y)
TR540
2SC1841(E/F)
TR528
2SC1845(E)
TR534
2SB1186A(D)
TR538
2SA1491(O/P/Y)
J515
OPEN
J516
OPEN
C658
OPEN
1U-3198-1
POWER UNIT
R701
4.7K
R702
10K
H/P_MUTE
TR560
2SC3311A
TR561
2SC3311A
RL501
RELAY(C2-12)
FRONT-A-SP
RL502
RELAY FTR-F1
FRONT-B-SP
RL501 :RY-12W
D514
1SS270A
D515
1SS270A
R704
4.7K
R705
10K
R707
4.7K
R708
10K
SCR501
SFOR1A42
R721
1K
R722
4.7
C583
10/16
TR554
2SC3311A
R728
10K
R730
20K
+6
TO POWER UNIT
1U-3198-1
CX033
(SHEET 8/14)
TO REGULATOR UNIT
1U-3201-1
CX087
(SHEET 7/14)
TO DISPLAY UNIT
1U-3199-3
CX932
(SHEET 12/14)
TO RF -5V UNIT
1U-3223-3
CX935
(SHEET 8/14)
Red
Black
Gray
Purple
Orange
Blue
Brown
White
*10
POWER TRANS
[ASIA MODEL ONLY]

	*1 F1	*2 F8	*3 T501	*12 CX021 CX023	*6 AC601	*7 R734	*8 CX031	*9 C613,614,615,616 C631,632,649	*10 POWER TRANS	*11 C525,526,553,554 C572,617,618	*12 J502	*13 J503
*USA CANADA	10A/125V	8A/125V	2336307006	—	2P AC OUTLET	2. 2M	—	—	2336295008	CQ0.022	SHORT	SHORT
EUROPE	3. 15A/250V	2. 5A/250V	2336308005	2P VH	—	—	3P W. T	CQ0. 01	2336300003	CQ0.047	OPEN	SHORT
ASIA	6. 3A/250V	2. 5A/250V	2336309004	2P VH	—	—	—	• CQ0.01	2336301002	CQ0.047	OPEN	OPEN

NOTICE

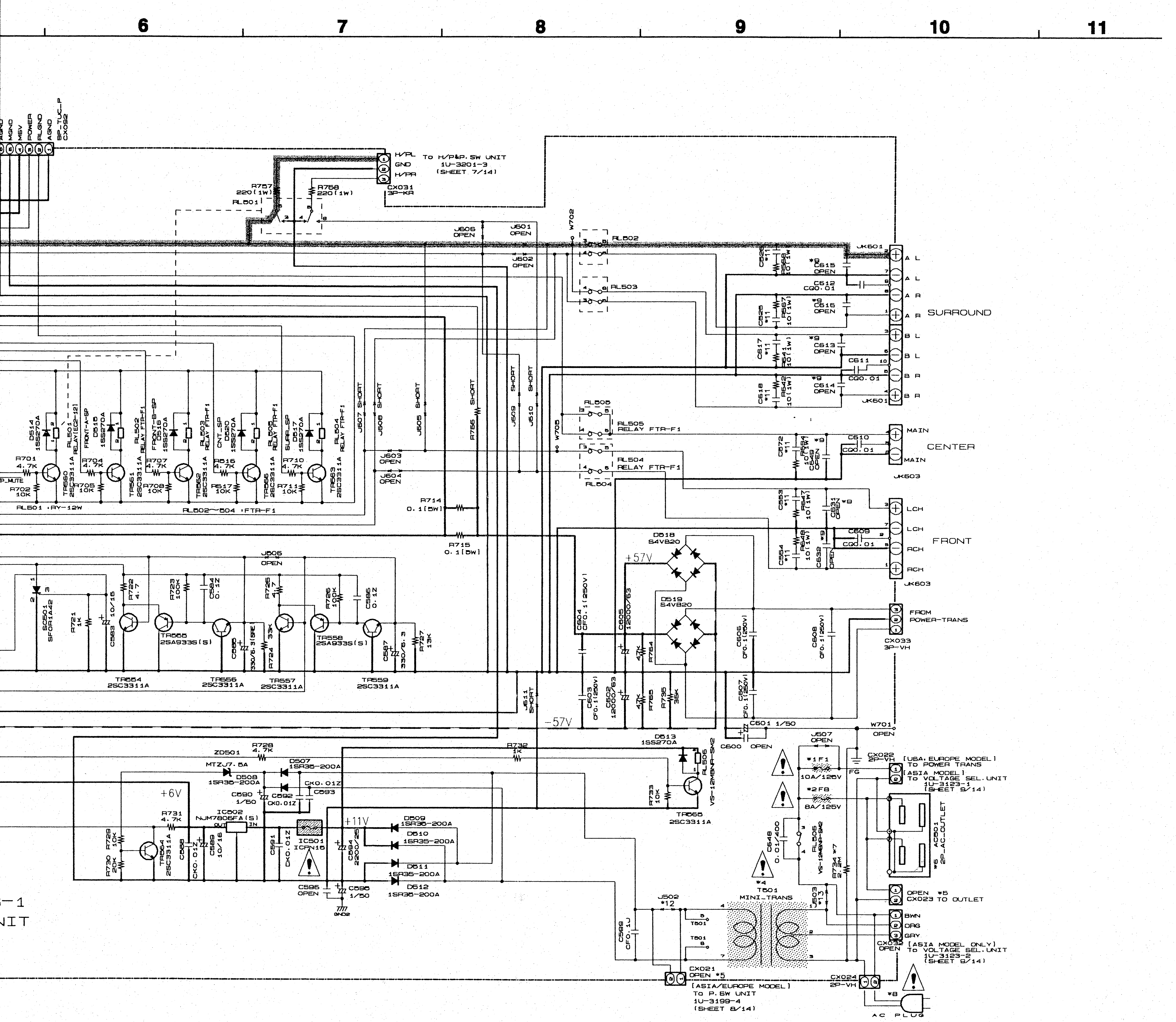
ALL RESISTANCE VALUES IN OHM. k=1,000 OH

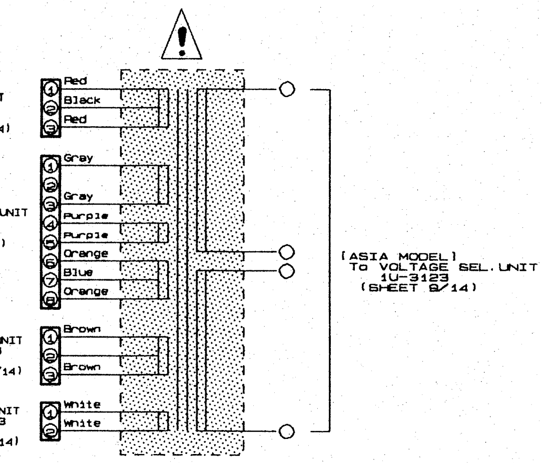
ALL CAPACITANCE VALUES IN MICRO FARAD. F

EACH VOLTAGE AND CURRENT ARE MEASURED CONDITION.

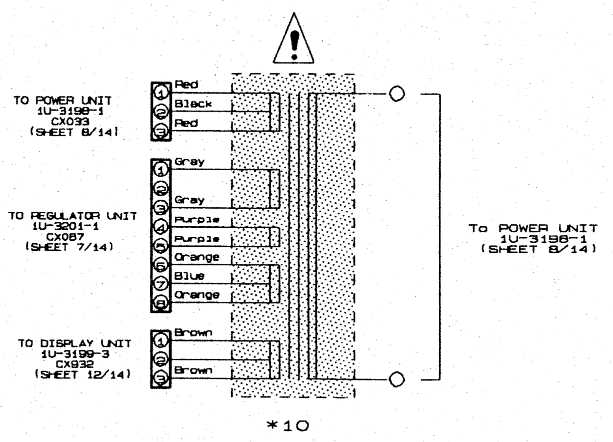
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE NOTICE.

H

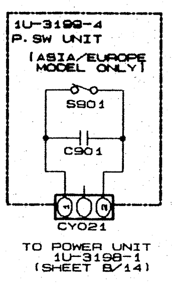

6
7
8
9
10
11
To H/P&P. SW UNIT 1U-3201-3 (SHEET 7/14)
CX031 3P-KR
RL501
RL502
RL503
RL504
RL505
JK601
SURROUND
CENTER
FRONT
JK603
FROM POWER-TRANS
CX033 3P-VH
D518 S4VB20
D519 S4VB20
+57V
-57V
+6V
+11V
IC502 NJM7806FA(S)
IC501 ICP-N15
ZD501 MTZJ7.5A
T501 MINI-TRANS
AC501 2P-AC-OUTLET
CX022 2P-VH [USA, EUROPE MODEL] To POWER TRANS [ASIA MODEL] To VOLTAGE SEL. UNIT 1U-3123-1 (SHEET 8/14)
OPEN *5 CX023 TO OUTLET
CX032 [ASIA MODEL ONLY] OPEN To VOLTAGE SEL. UNIT 1U-3123-2 (SHEET 8/14)
CX021 OPEN *5 [ASIA/EUROPE MODEL] To P. SW UNIT 1U-3199-4 (SHEET 8/14)
CX024 2P-VH
AC PLUG
RL501 :RY-12W
RL502~504 :FTR-F1
-1
NIT


Red
Black
Red
Gray
Gray
Purple
Purple
Orange
Blue
Orange
Brown
Brown
White
White
[ASIA MODEL] To VOLTAGE SEL. UNIT 1U-3123 (SHEET 8/14)

*10
POWER TRANS
[ASIA MODEL ONLY]


TO POWER UNIT 1U-3198-1 CX033 (SHEET 8/14)
TO REGULATOR UNIT 1U-3201-1 CX087 (SHEET 7/14)
TO DISPLAY UNIT 1U-3199-3 CX932 (SHEET 12/14)
To POWER UNIT 1U-3198-1 (SHEET 8/14)
Red
Black
Red
Gray
Gray
Purple
Purple
Orange
Blue
Orange
Brown
Brown

*10
POWER TRANS
[USA, CANADA, EUROPE MODEL]


1U-3199-4
P. SW UNIT
[ASIA/EUROPE MODEL ONLY]
S901
C901
CY021
TO POWER UNIT 1U-3198-1 (SHEET 8/14)

——— +B LINE
— — — -B LINE
▨ SIGNAL LINE

STANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
LTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT
.
ND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR

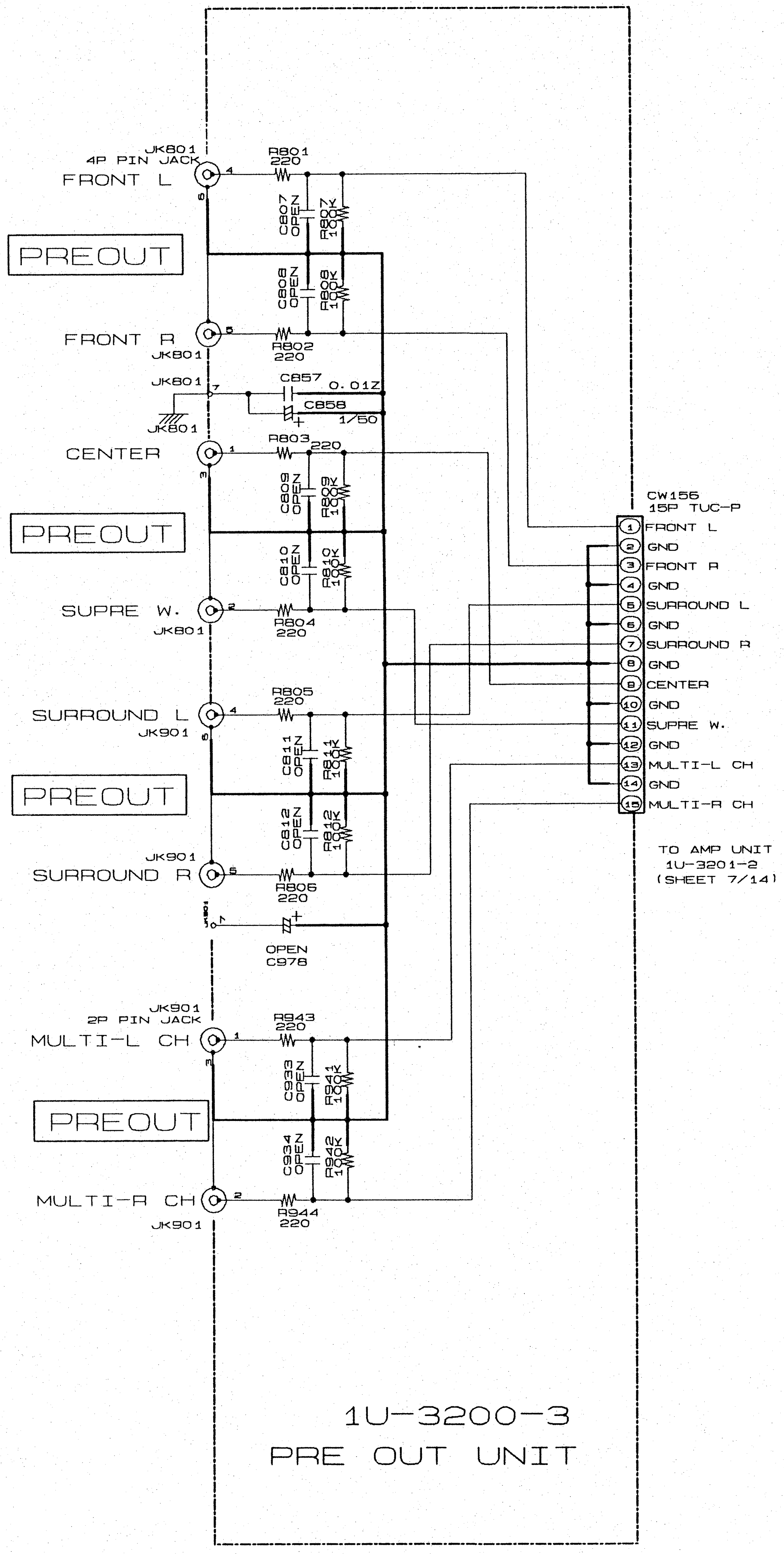
WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

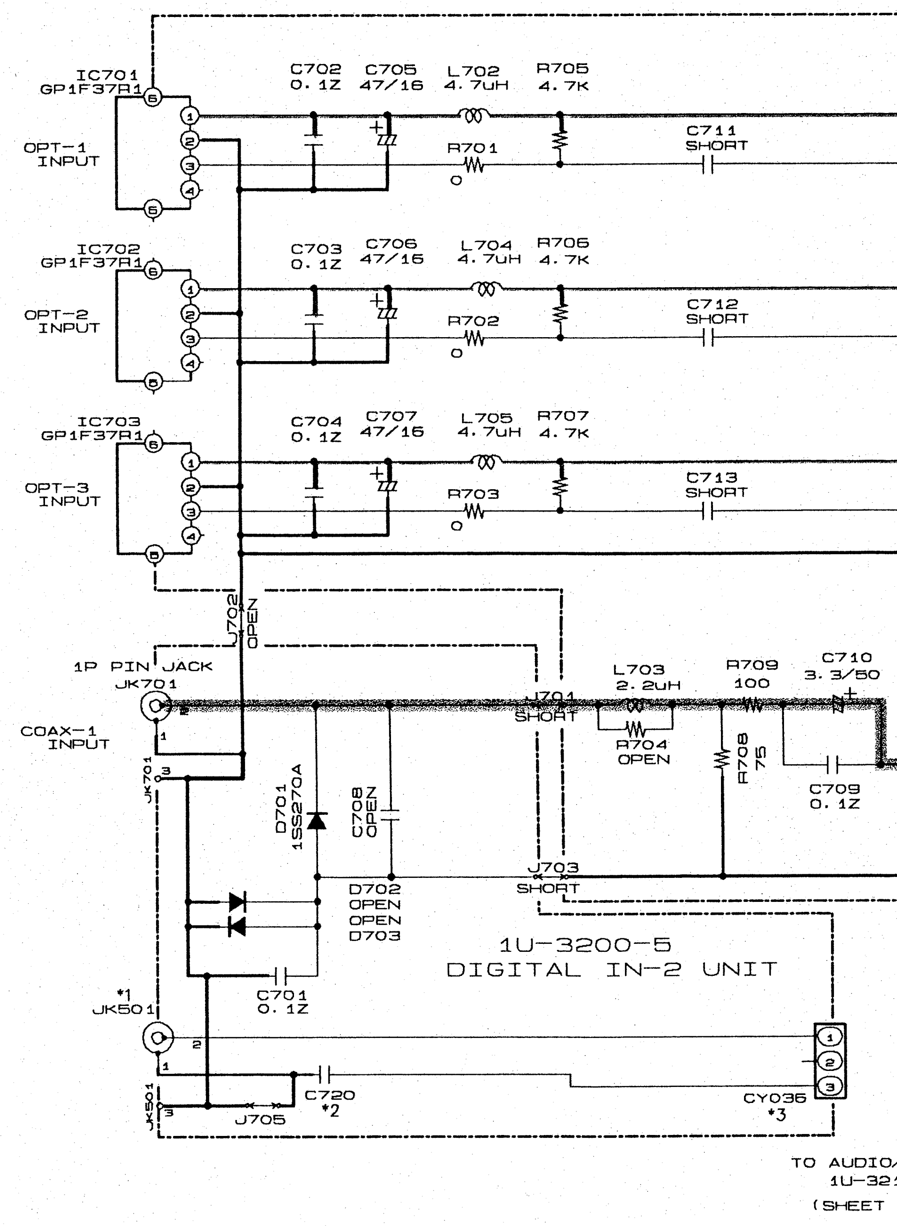
CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

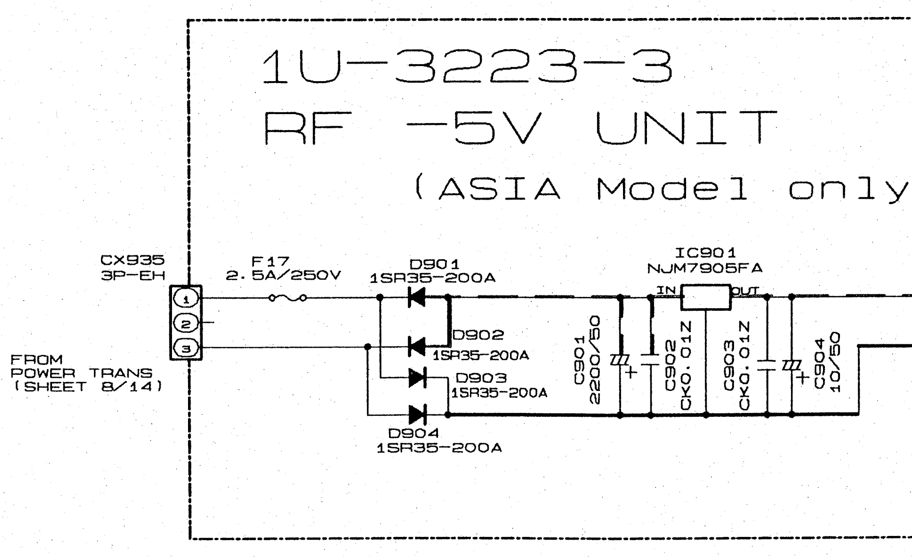
WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAMS (8/14)
1U-3198-1 POWER UNIT

SCHEMATIC DIAGRAMS (9/14)


JK801
4P PIN JACK
FRONT L
PREOUT
FRONT R
CENTER
SUPRE W.
SURROUND L
SURROUND R
JK901
2P PIN JACK
MULTI-L CH
MULTI-R CH
R801 220
R802 220
R803 220
R804 220
R805 220
R806 220
R943 220
R944 220
C807 OPEN
C808 OPEN
C809 OPEN
C810 OPEN
C811 OPEN
C812 OPEN
C933 OPEN
C934 OPEN
R807 100K
R808 100K
R809 100K
R810 100K
R811 100K
R812 100K
R941 100K
R942 100K
C857 0.01Z
C858 1/50
OPEN C978
CW156
15P TUC-P
1 FRONT L
2 GND
3 FRONT R
4 GND
5 SURROUND L
6 GND
7 SURROUND R
8 GND
9 CENTER
10 GND
11 SUPRE W.
12 GND
13 MULTI-L CH
14 GND
15 MULTI-R CH
TO AMP UNIT
1U-3201-2
(SHEET 7/14)
1U-3200-3
PRE OUT UNIT


IC701 GP1F37R1
IC702 GP1F37R1
IC703 GP1F37R1
OPT-1 INPUT
OPT-2 INPUT
OPT-3 INPUT
C702 0.1Z
C703 0.1Z
C704 0.1Z
C705 47/16
C706 47/16
C707 47/16
L702 4.7uH
L704 4.7uH
L705 4.7uH
R705 4.7K
R706 4.7K
R707 4.7K
R701 0
R702 0
R703 0
C711 SHORT
C712 SHORT
C713 SHORT
J702 OPEN
1P PIN JACK
JK701
COAX-1 INPUT
J701 SHORT
L703 2.2uH
R709 100
C710 3.3/50
R704 OPEN
R708 75
C709 0.1Z
D701 1SS270A
C708 OPEN
D702 OPEN
OPEN D703
J703 SHORT
C701 0.1Z
1U-3200-5
DIGITAL IN-2 UNIT
*1 JK501
C720 *2
J705
CY036 *3
TO AUDIO
1U-32
(SHEET


1U-3223-3
RF -5V UNIT
(ASIA Model only
CX935 3P-EH
FROM POWER TRANS (SHEET 8/14)
F17 2.5A/250V
D901 1SR35-200A
D902 1SR35-200A
D903 1SR35-200A
D904 1SR35-200A
IC901 NJM7905FA
IN OUT
C901 2200/50
C902 CK0.01Z
C903 CK0.01Z
C904 10/50

	*1 JK501	*2 C720	*3 CY036
USA CANADA	OPEN	OPEN	OPEN
EUROPE	OPEN	OPEN	OPEN
ASIA	1P PIN JACK	CK0.1	3P KR

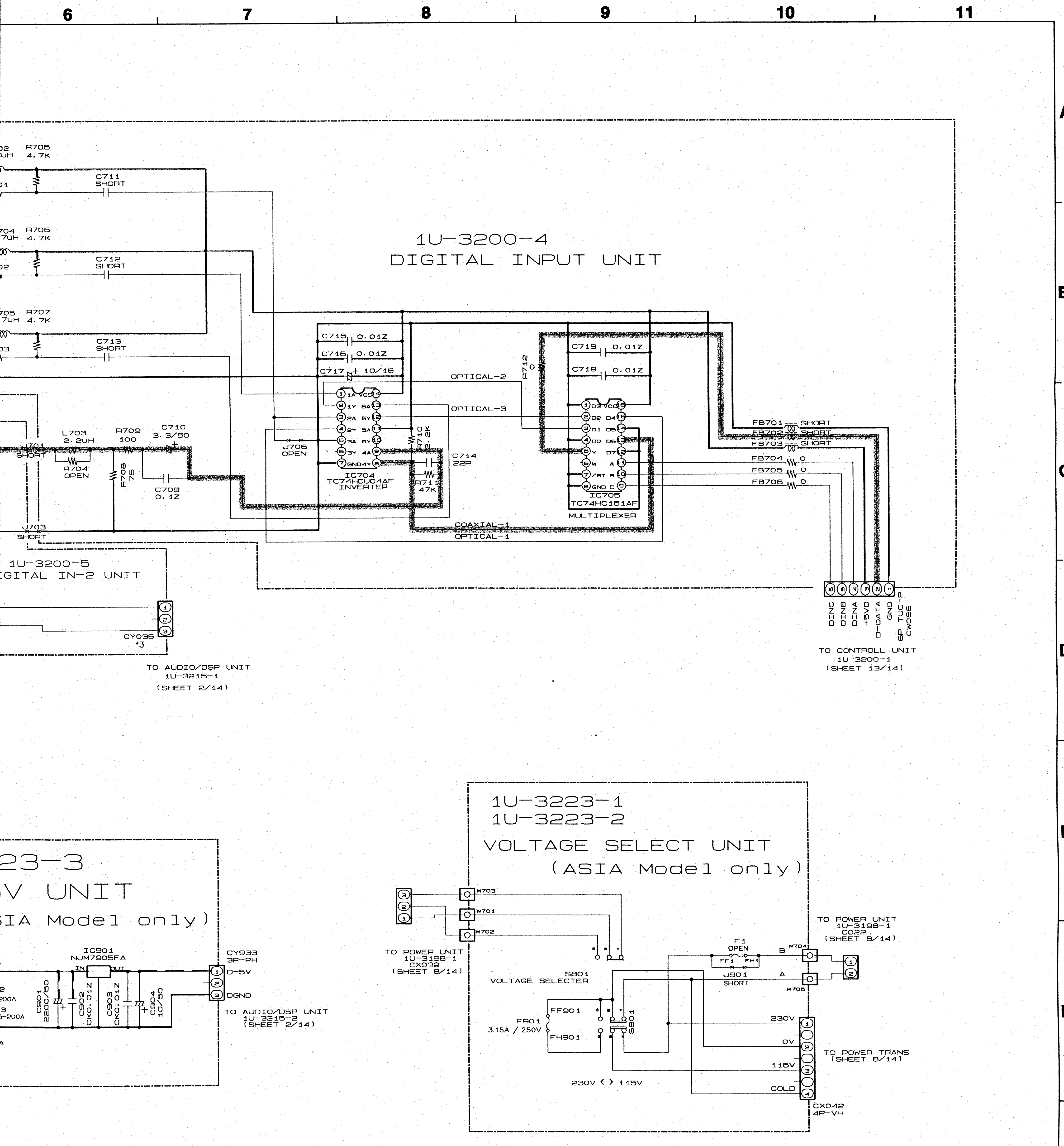
NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD

EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.


6
7
8
9
10
11
1U-3200-4
DIGITAL INPUT UNIT
R705 4.7K
R706 4.7K
R707 4.7K
C711 SHORT
C712 SHORT
C713 SHORT
C715 0.01Z
C716 0.01Z
C717 10/16
C718 0.01Z
C719 0.01Z
R712 0
OPTICAL-2
OPTICAL-3
L703 2.2uH
R709 100
C710 3.3/50
J701 SHORT
R704 OPEN
R708 75
C709 0.1Z
J705 OPEN
R710 2.2K
C714 22P
R711 47K
IC704 TC74HCU04AF INVERTER
IC705 TC74HC151AF MULTIPLEXER
COAXIAL-1
OPTICAL-1
J703 SHORT
FB701 SHORT
FB702 SHORT
FB703 SHORT
FB704 0
FB705 0
FB706 0
DINC
DINB
DINA
+5VD
D-DATA
GND
6P TUC-P
CW066
TO CONTROLL UNIT
1U-3200-1
(SHEET 13/14)
1U-3200-5
DIGITAL IN-2 UNIT
CY036 *3
TO AUDIO/DSP UNIT
1U-3215-1
(SHEET 2/14)
1U-3223-1
1U-3223-2
VOLTAGE SELECT UNIT
(ASIA Model only)
W703
W701
W702
TO POWER UNIT
1U-3198-1
CX032
(SHEET 8/14)
S801
VOLTAGE SELECTER
F1 OPEN
FF1 FH1
J901 SHORT
W704
W705
TO POWER UNIT
1U-3198-1
C022
(SHEET 8/14)
FF901
F901
3.15A / 250V
FH901
S801
230V
0V
115V
COLD
230V ↔ 115V
TO POWER TRANS
(SHEET 8/14)
CX042
4P-VH
23-3
V UNIT
SIA Model only)
IC901
NJM7905FA
IN OUT
CY933
3P-PH
D-5V
DGND
TO AUDIO/DSP UNIT
1U-3215-2
(SHEET 2/14)
C901 2200/50
C902 CK0.01Z
C903 CK0.01Z
C904 10/50

OHM. k=1,000 OHM M=1,000,000 OHM
IN MICRO FARAD. P=MICRO-MICRO FARAD
NT ARE MEASURED AT NO SIGNAL INPUT

UBJECT TO CHANGE WITHOUT PRIOR

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

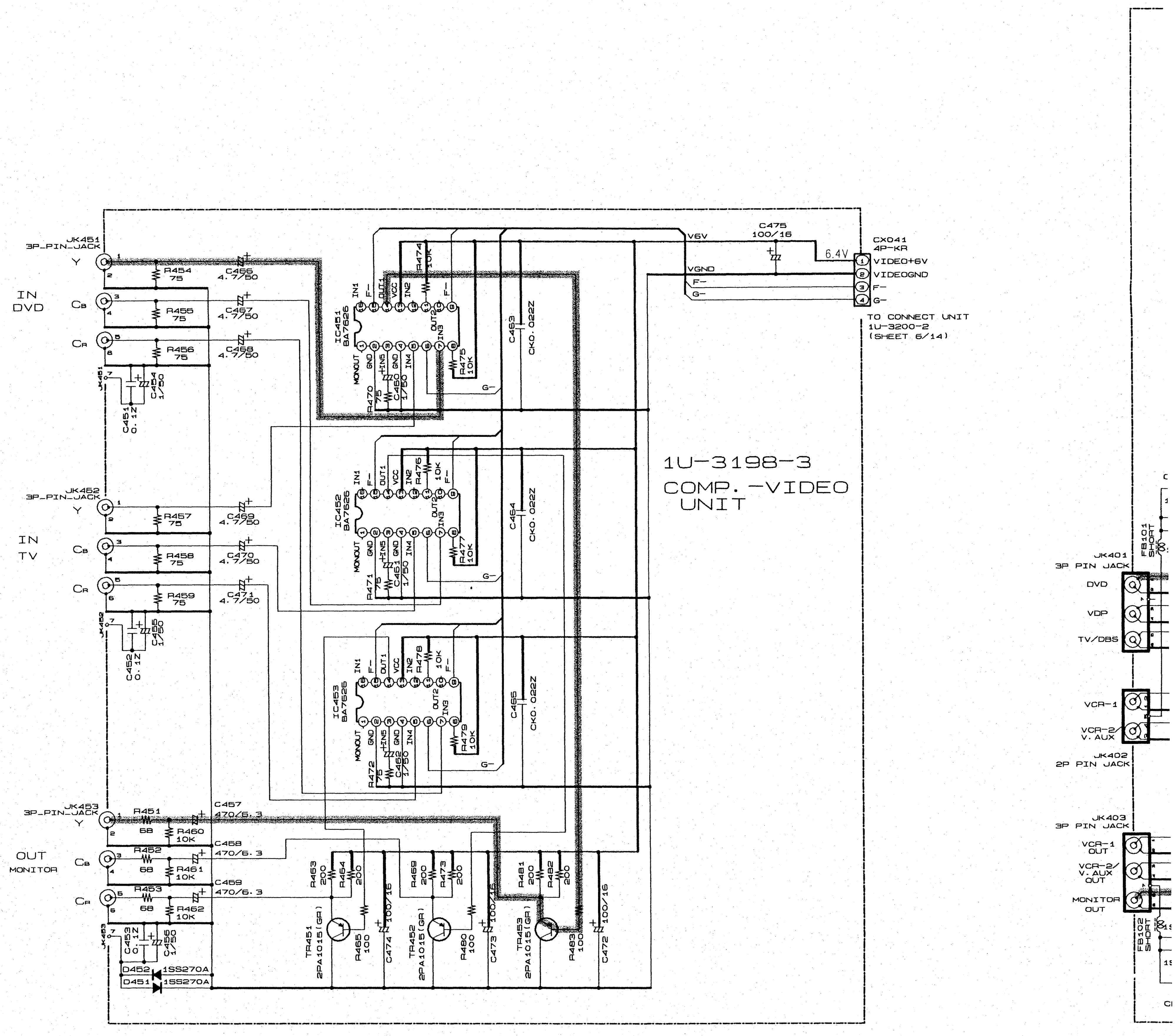
WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

——— +B LINE
— — — -B LINE
▨ SIGNAL LINE

SCHEMATIC DIAGRAMS (9/14)

1U-3200-3 PRE OUT UNIT / 1U-3200-4 DIGITAL INPUT UNIT
1U-3200-5 DIGITAL IN-2 UNIT
1U-3223-1 / 1U-3223-2 VOLTAGE SELECT UNIT
1U-3223-3 RF -5V UNIT

SCHEMATIC DIAGRAMS (10/14)


1
2
3
4
5
6
A
B
C
D
E
F
G
H
JK451
3P_PIN_JACK
Y
IN
DVD
CB
CR
R454
75
R455
75
R456
75
C466
4.7/50
C467
4.7/50
C468
4.7/50
C454
1/50
C451
0.1Z
JK452
3P_PIN_JACK
IN
TV
R457
75
R458
75
R459
75
C469
4.7/50
C470
4.7/50
C471
4.7/50
C455
1/50
C452
0.1Z
JK453
3P_PIN_JACK
OUT
MONITOR
R451
68
R452
68
R453
68
R460
10K
R461
10K
R462
10K
C457
470/6.3
C458
470/6.3
C459
470/6.3
C453
0.1Z
C456
1/50
D452
1SS270A
D451
1SS270A
IC451
BA7626
IC452
BA7626
IC453
BA7626
IN1
F-
OUT1
VCC
IN2
OUT2
IN3
MONOUT
GND
+IN5
IN4
R474
10K
R475
10K
R476
10K
R477
10K
R478
10K
R479
10K
R470
75
R471
75
R472
75
C460
1/50
C461
1/50
C462
1/50
C463
CK0.022Z
C464
CK0.022Z
C465
CK0.022Z
G-
C475
100/16
V6V
VGND
F-
G-
6.4V
CX041
4P-KR
VIDEO+6V
VIDEOGND
F-
G-
TO CONNECT UNIT
1U-3200-2
(SHEET 6/14)
1U-3198-3
COMP. -VIDEO
UNIT
R463
200
R464
200
R465
100
TR451
2PA1015(GR)
C474
100/16
R468
200
R473
200
R480
100
TR452
2PA1015(GR)
C473
100/16
R481
200
R482
200
R483
100
TR453
2PA1015(GR)
C472
100/16
JK401
3P PIN JACK
DVD
VDP
TV/DBS
FB101
SHORT
VCR-1
VCR-2/
V. AUX
JK402
2P PIN JACK
JK403
3P PIN JACK
VCR-1
OUT
VCR-2/
V. AUX
OUT
MONITOR
OUT
FB102
SHORT

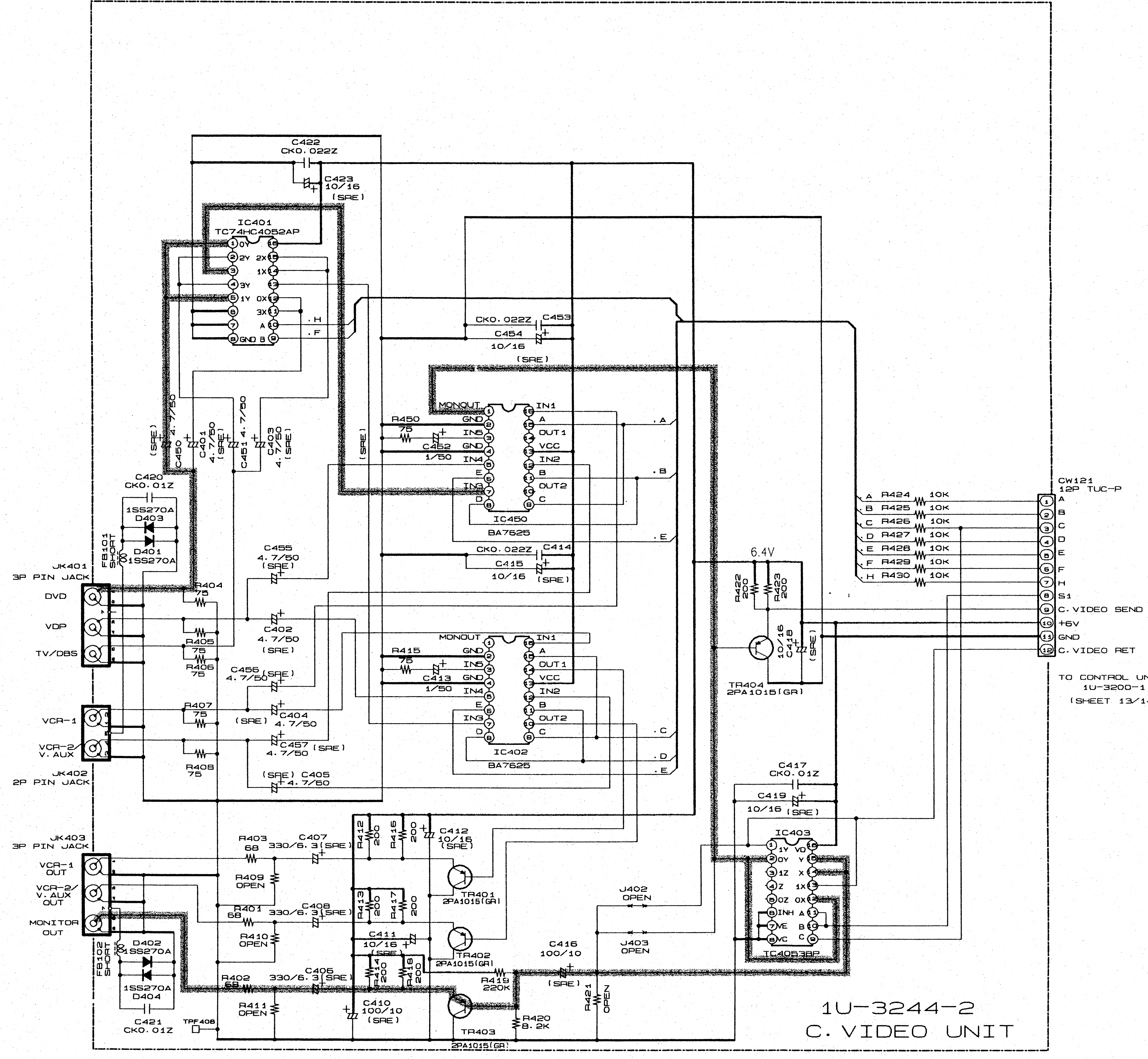
NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

IT


C422
CK0.022Z
C423
10/16
(SRE)
IC401
TC74HC4052AP
0Y
2Y
2X
1X
3Y
1Y
0X
3X
A
GND
B
.H
.F
C450
4.7/50
(SRE)
C401
4.7/50
(SRE)
C451
4.7/50
C403
4.7/50
(SRE)
C420
CK0.01Z
1SS270A
D403
D401
1SS270A
FB101
SHORT
JK401
3P PIN JACK
DVD
VDP
TV/DBS
R404
75
R405
75
R406
75
C455
4.7/50
(SRE)
C402
4.7/50
(SRE)
C456
4.7/50
VCR-1
VCR-2/
V. AUX
JK402
2P PIN JACK
R407
75
R408
75
C404
4.7/50
C457
4.7/50
(SRE)
C405
4.7/50
CK0.022Z
C453
C454
10/16
(SRE)
MONOUT
GND
IN5
IN4
E
IN3
D
IN1
A
OUT1
VCC
IN2
B
OUT2
C
R450
75
C452
1/50
IC450
BA7625
CK0.022Z
C414
C415
10/16
(SRE)
R415
75
C413
1/50
IC402
BA7625
.A
.B
.E
.C
.D
.E
JK403
3P PIN JACK
VCR-1
OUT
VCR-2/
V. AUX
OUT
MONITOR
OUT
R403
68
C407
330/6.3(SRE)
R409
OPEN
R401
68
C408
330/6.3(SRE)
R410
OPEN
D402
1SS270A
1SS270A
D404
FB102
SHORT
R402
68
C406
330/6.3(SRE)
R411
OPEN
C421
CK0.01Z
TPF408
R412
200
R416
200
C412
10/16
(SRE)
TR401
2PA1015(GR)
R413
200
R417
200
C411
10/16
(SRE)
TR402
2PA1015(GR)
R414
200
R418
200
C410
100/10
(SRE)
R419
220K
TR403
2PA1015(GR)
R420
8.2K
C416
100/10
(SRE)
R421
OPEN
J402
OPEN
J403
OPEN
6.4V
R422
200
R423
200
C418
10/16
(SRE)
TR404
2PA1015(GR)
C417
CK0.01Z
C419
10/16
(SRE)
IC403
1Y
VD
0Y
Y
1Z
X
Z
1X
0Z
0X
INH
A
VE
B
VC
C
TC4053BP
A R424 10K
B R425 10K
C R426 10K
D R427 10K
E R428 10K
F R429 10K
H R430 10K
CW121
12P TUC-P
1 A
2 B
3 C
4 D
5 E
6 F
7 H
8 S1
9 C. VIDEO SEND
10 +6V
11 GND
12 C. VIDEO RET
TO CONTROL UNIT
1U-3200-1
(SHEET 13/14)
1U-3244-2
C. VIDEO UNIT

—— +B LINE

▨ SIGNAL LINE

either (1) a
If the leakage
to either side

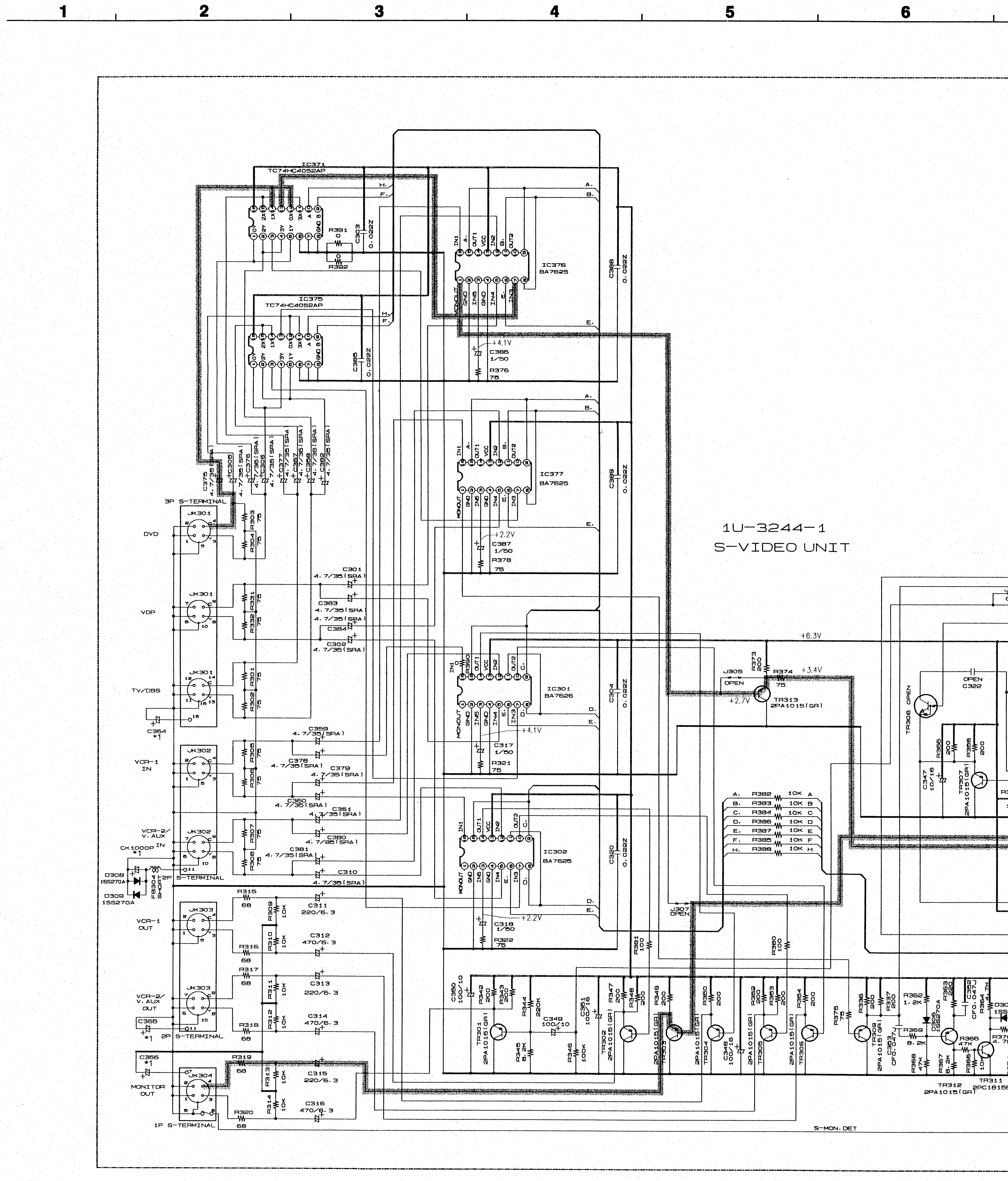
ated and

SCHEMATIC DIAGRAMS (10/14)

1U-3198-3 COMP.-VIDEO UNIT

1U-3244-2 C.VIDEO UNIT

SCHEMATIC DIAGRAMS (11/14)


1
2
3
4
5
6
1U-3244-1
S-VIDEO UNIT
IC371
TC74HC4052AP
IC375
TC74HC4052AP
IC376
BA7625
IC377
BA7625
IC301
BA7626
IC302
BA7625
3P S-TERMINAL
JK301
DVD
VDP
TV/DBS
JK302
VCR-1
IN
VCR-2/
V. AUX
IN
CK1000P
*1
D308
1SS270A
D309
1SS270A
FB301
SHORT
2P S-TERMINAL
JK303
VCR-1
OUT
VCR-2/
V. AUX
OUT
C365
*1
C356
*1
JK304
MONITOR
OUT
1P S-TERMINAL
+4.1V
+2.2V
+6.3V
+3.4V
+2.7V
J305
OPEN
TR313
2PA1015(GR)
J307
OPEN
TR308 OPEN
OPEN
C322
TR307
2PA1015(GR)
R382 10K A
R383 10K B
R384 10K C
R386 10K D
R387 10K E
R385 10K F
R388 10K H
TR301
2PA1015(GR)
TR302
2PA1015(GR)
TR303
2PA1015(GR)
TR304
2PA1015(GR)
TR305
2PA1015(GR)
TR306
2PA1015(GR)
TR309
2PA1015(GR)
TR311
2PC1815
TR312
2PA1015(GR)
D306
1SS270A
S-MON. DET

	*1 C363,364,365,366
USA CANADA	CK1000P
EUROPE	OPEN
ASIA	OPEN

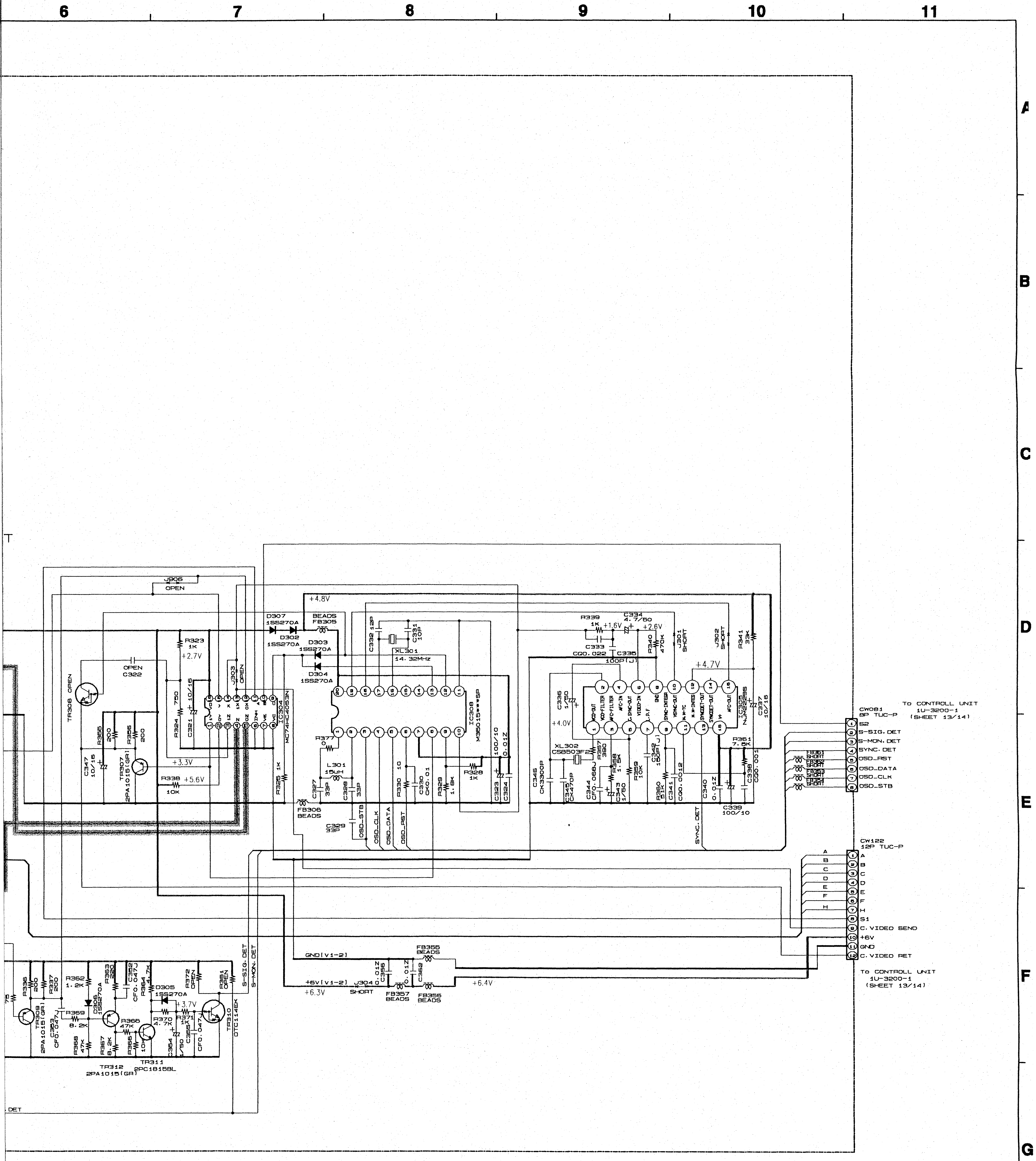
NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MI

EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIG CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT P NOTICE.


6
7
8
9
10
11
A
B
C
D
E
F
G
J906 OPEN
+4.8V
D307 1SS270A
BEADS FB305
D302 1SS270A
D303 1SS270A
D304 1SS270A
C332 12P
C331 10P
XL301 14.32MHz
R323 1K
+2.7V
OPEN C322
TR308 OPEN
J303 OPEN
IC304 MC74HC4053N
IC308 M35015***SP
R324 750
C321 10/16
R355 200
R356 200
C347 10/16
TR307 2PA1015(GR)
+3.3V
R338 10K
+5.6V
R325 1K
R377 0
L301 15uH
C327 33P
C328 33P
C329 33P
R330 10
C330 CK0.01
R329 1.8K
R328 1K
100/10
0.01Z
C323
C324
FB306 BEADS
OSD_STB
OSD_CLK
OSD_DATA
OSD_RST
R339 1K
+1.6V
C334 4.7/50
+2.6V
C333 CQ0.022
C335 100P(J)
R340 470K
J301 SHORT
J302 SHORT
R341 33K
+4.7V
C336 1/50
+4.0V
IC305 NJM2229S
C337 10/16
VCO-OUT
VCO-FILTER
AFC-FILTER
AFC-IN
H.SYNC-OUT
VIDEO-IN
L.P.F
GND
SYNC-INTEGR
VSYNC-OUT
H.H-INTEG
H.H-TC
SYNCDET-OUT
AFC-OUT
V+
XL302 CSB503F2
R357 390
C346 CK3300P
C345 CK470P
C344 CF0.068J
R358 1.5K
C343 1/50
R359 10K
C342 150P(J)
R360 51K
C341 CQ0.0012
C340 0.01Z
R361 7.5K
C338 CQ0.001
C339 100/10
SYNC.DET
CW081 8P TUC-P
To CONTROLL UNIT 1U-3200-1 (SHEET 13/14)
S2
S-SIG.DET
S-MON.DET
SYNC.DET
OSD_RST
OSD_DATA
OSD_CLK
OSD_STB
FB361 SHORT
FB362 SHORT
FB363 SHORT
FB364 SHORT
CW122 12P TUC-P
A
B
C
D
E
F
H
S1
C.VIDEO SEND
+6V
GND
C.VIDEO RET
To CONTROLL UNIT 1U-3200-1 (SHEET 13/14)
GND(V1-2)
FB355 BEADS
+6V(V1-2)
J304 SHORT
C355 0.01Z
C362 0.01Z
FB357 BEADS
FB356 BEADS
+6.3V
+6.4V
S-SIG.DET
S-MON.DET
R336 2K
R337 200
R362 1.2K
R363 220
C352 CF0.047J
R364 4.7K
D305 1SS270A
D306 1SS270A
R372 OPEN
R351 OPEN
+3.7V
R369 8.2K
R365 47K
R370 4.7K
R371 1K
TR309 2PA1015(GR)
C353 CF0.047J
R368 47K
R367 8.2K
R366 10K
C364 1/50
C365 1/50
CF0.047J
TR310 DTC114EK
TR311 2PC1815BL
TR312 2PA1015(GR)
DET

LUES IN OHM. k=1,000 OHM M=1,000,000 OHM
/ALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
CURRENT ARE MEASURED AT NO SIGNAL INPUT

ARE SUBJECT TO CHANGE WITHOUT PRIOR

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

—— +B LINE

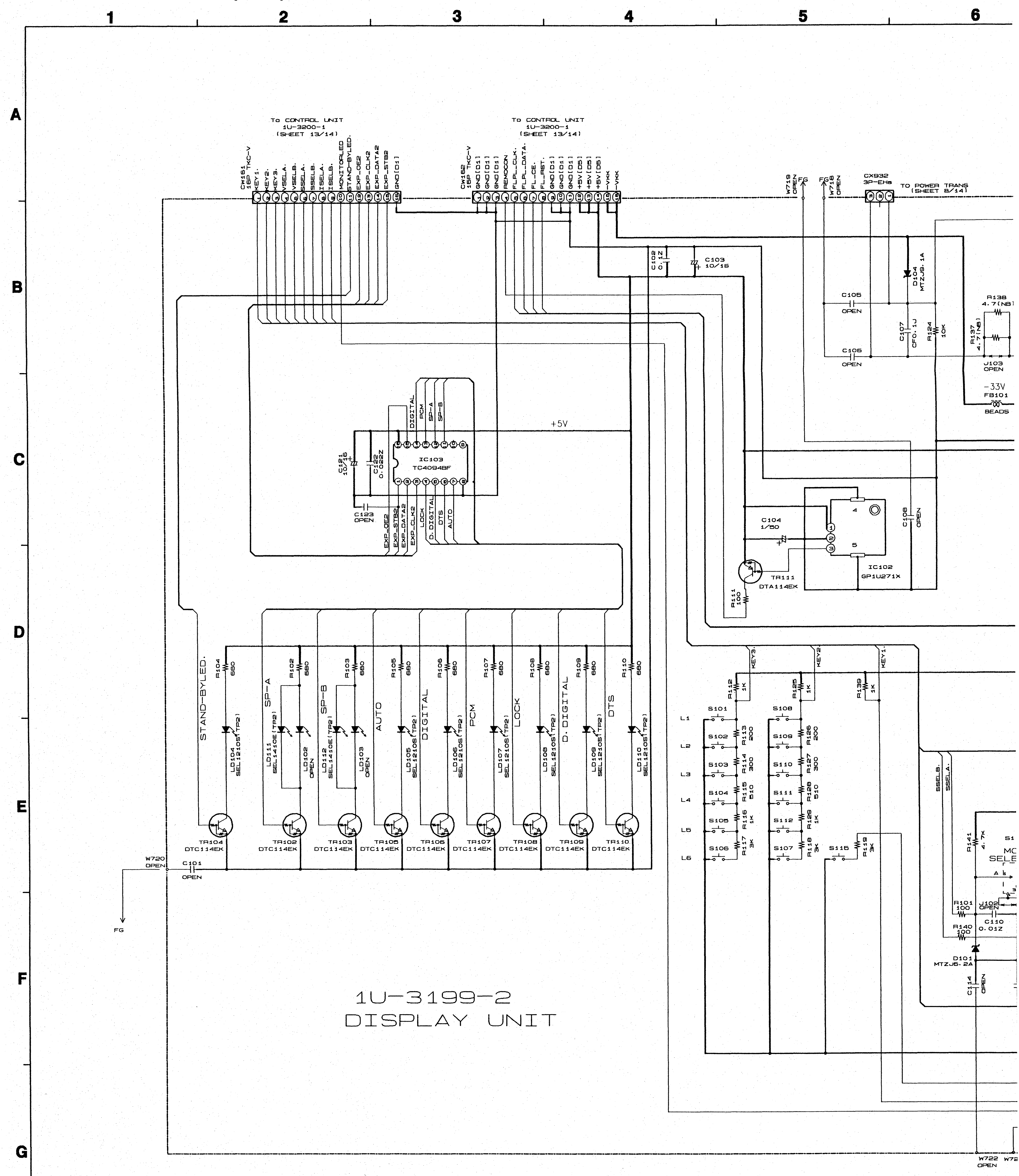
▨ SIGNAL LINE

H

SCHEMATIC DIAGRAMS (11/14)

1U-3244-1 S-VIDEO UNIT

SCHEMATIC DIAGRAMS (12/14)

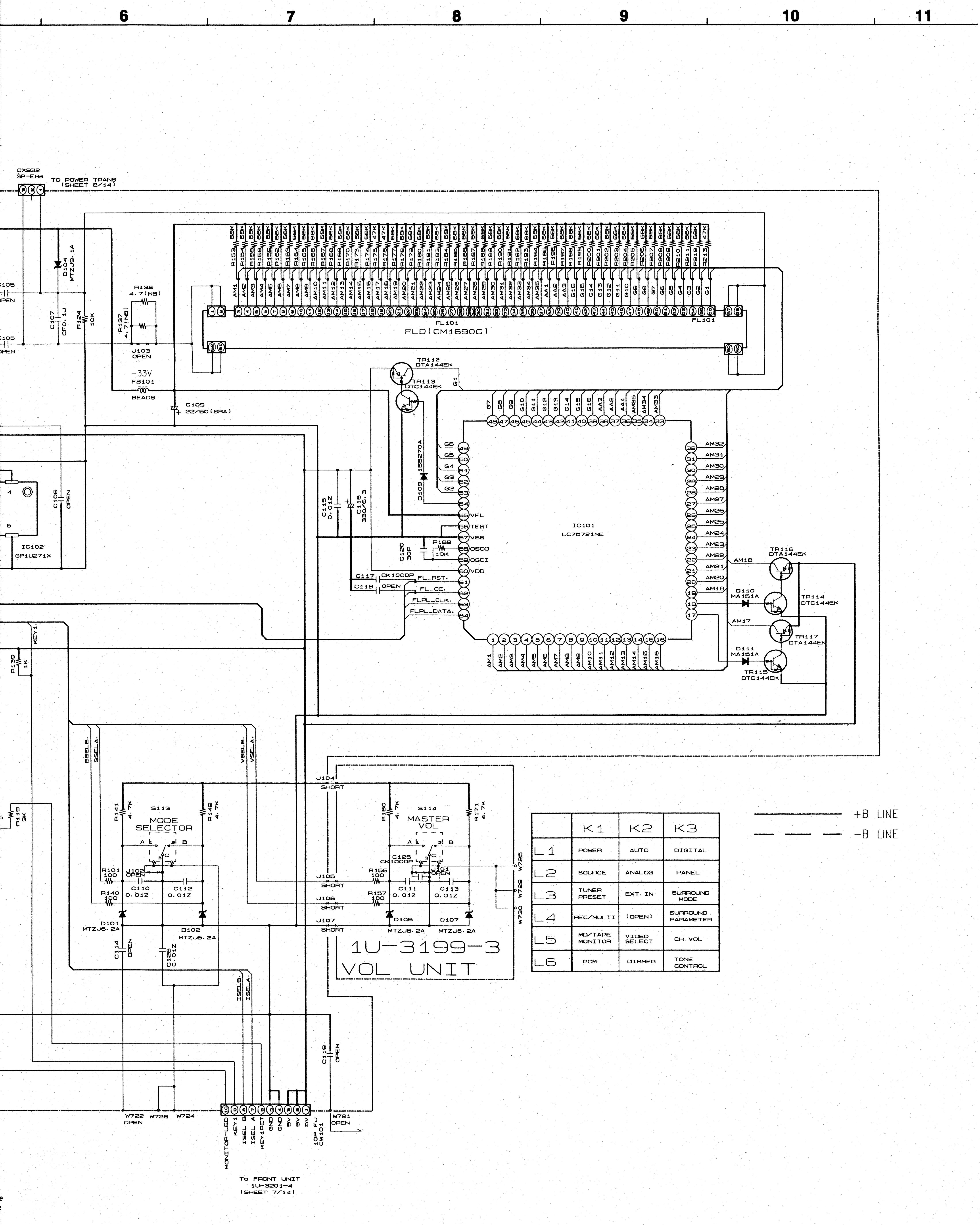

1
2
3
4
5
6
A
B
C
D
E
F
G
To CONTROL UNIT
1U-3200-1
(SHEET 13/14)
CW161
16P TKC-V
KEY1.
KEY2.
KEY3.
VSELA.
VSELB.
SSELA.
SSELB.
ISELA.
ISELB.
MONITORLED
STAND-BYLED.
EXP_OE2
EXP_CLK2
EXP_DATA2
EXP_STB2
GND[D1]
To CONTROL UNIT
1U-3200-1
(SHEET 13/14)
CW162
15P TKC-V
GND[D1]
GND[D1]
GND[D1]
REMOCON
FLPL_CLK.
FLPL_DATA.
FL_CE.
FL_RST.
GND[D1]
GND[D1]
GND[D1]
+5V[D5]
+5V[D5]
+5V[D5]
-VKK
-VKK
W719
OPEN
FG
FG
W718
OPEN
CX932
3P-EHs
TO POWER TRANS
(SHEET 8/14)
C102
0.1Z
C103
10/16
D104
MTZJ9.1A
C105
OPEN
C106
OPEN
C107
CF0.1J
R124
10K
R138
4.7(NB)
R137
4.7(NB)
J103
OPEN
-33V
FB101
BEADS
DIGITAL
PCM
SP-A
SP-B
+5V
C121
10/16
C122
0.022Z
IC103
TC4094BF
C123
OPEN
EXP_OE2
EXP_STB2
EXP_DATA2
EXP_CLK2
LOCK
D.DIGITAL
DTS
AUTO
C104
1/50
IC102
GP1U271X
C108
OPEN
TR111
DTA114EK
R111
100
STAND-BYLED.
SP-A
SP-B
AUTO
DIGITAL
PCM
LOCK
D.DIGITAL
DTS
R104 680
R102 680
R103 680
R105 680
R106 680
R107 680
R108 680
R109 680
R110 680
LD104 SEL1210S(TP2)
LD111 SEL1410E(TP2)
LD102 OPEN
LD112 SEL1410E(TP2)
LD103 OPEN
LD105 SEL1210S(TP2)
LD106 SEL1210S(TP2)
LD107 SEL1210S(TP2)
LD108 SEL1210S(TP2)
LD109 SEL1210S(TP2)
LD110 SEL1210S(TP2)
TR104 DTC114EK
TR102 DTC114EK
TR103 DTC114EK
TR105 DTC114EK
TR106 DTC114EK
TR107 DTC114EK
TR108 DTC114EK
TR109 DTC114EK
TR110 DTC114EK
W720
OPEN
C101
OPEN
FG
KEY3.
KEY2.
KEY1.
R112 1K
R125 1K
R139 1K
L1
L2
L3
L4
L5
L6
S101
S102
S103
S104
S105
S106
S108
S109
S110
S111
S112
S107
S115
R113 200
R114 300
R115 510
R116 1K
R117 3K
R126 200
R127 300
R128 510
R129 1K
R118 3K
R119 3K
SSELB.
SSELA.
R141 4.7K
S1
MC
SELE
A
R101 100
J102 OPEN
C110 0.01Z
R140 100
D101 MTZJ6.2A
C114 OPEN
W722 OPEN
W72
1U-3199-2
DISPLAY UNIT

NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.


6
7
8
9
10
11
CX932
3P-EH
TO POWER TRANS
(SHEET 8/14)
D104
MTZJ9. 1A
C105
OPEN
C106
OPEN
C107
CF0. 1U
R124
10K
R138
4.7(NB)
R137
4.7(NB)
J103
OPEN
-33V
FB101
BEADS
C109
22/50(SRA)
FL101
FLD(CM1690C)
TR112
DTA144EK
TR113
DTC144EK
D109
1SS270A
C115
0.012
C116
330/6.3
C120
30P
R182
10K
C117
CK1000P
C118
OPEN
FL_RST.
FL_CE.
FLPL_CLK.
FLPL_DATA.
VFL
TEST
VSS
OSCO
OSCI
VDD
IC101
LC75721NE
TR116
DTA144EK
TR114
DTC144EK
TR117
DTA144EK
TR115
DTC144EK
D110
MA151A
D111
MA151A
IC102
GP1U271X
C108
OPEN
KEY1
R139
1K
R119
3K
SSELB.
SSELA.
VSELB.
VSELA.
ISELB.
ISELA.
S113
MODE
SELECTOR
R141
4.7K
R142
4.7K
R101
100
R140
100
J102
OPEN
C110
0.012
C112
0.012
D101
MTZJ6.2A
D102
MTZJ6.2A
C114
OPEN
C125
0.012
J104
SHORT
J105
SHORT
J106
SHORT
J107
SHORT
S114
MASTER
VOL
R160
4.7K
R171
4.7K
R156
100
R157
100
C126
CK1000P
J101
OPEN
C111
0.012
C113
0.012
D105
MTZJ6.2A
D107
MTZJ6.2A
W725
W729
W730
1U-3199-3
VOL UNIT
C119
OPEN
W722
OPEN
W728
W724
W721
OPEN
MONITOR-LED
KEY1
ISEL B
ISEL A
KEY1RET
GND
GND
5V
5V
5V
10P FJ
CW101
To FRONT UNIT
1U-3201-4
(SHEET 7/14)
+B LINE
-B LINE

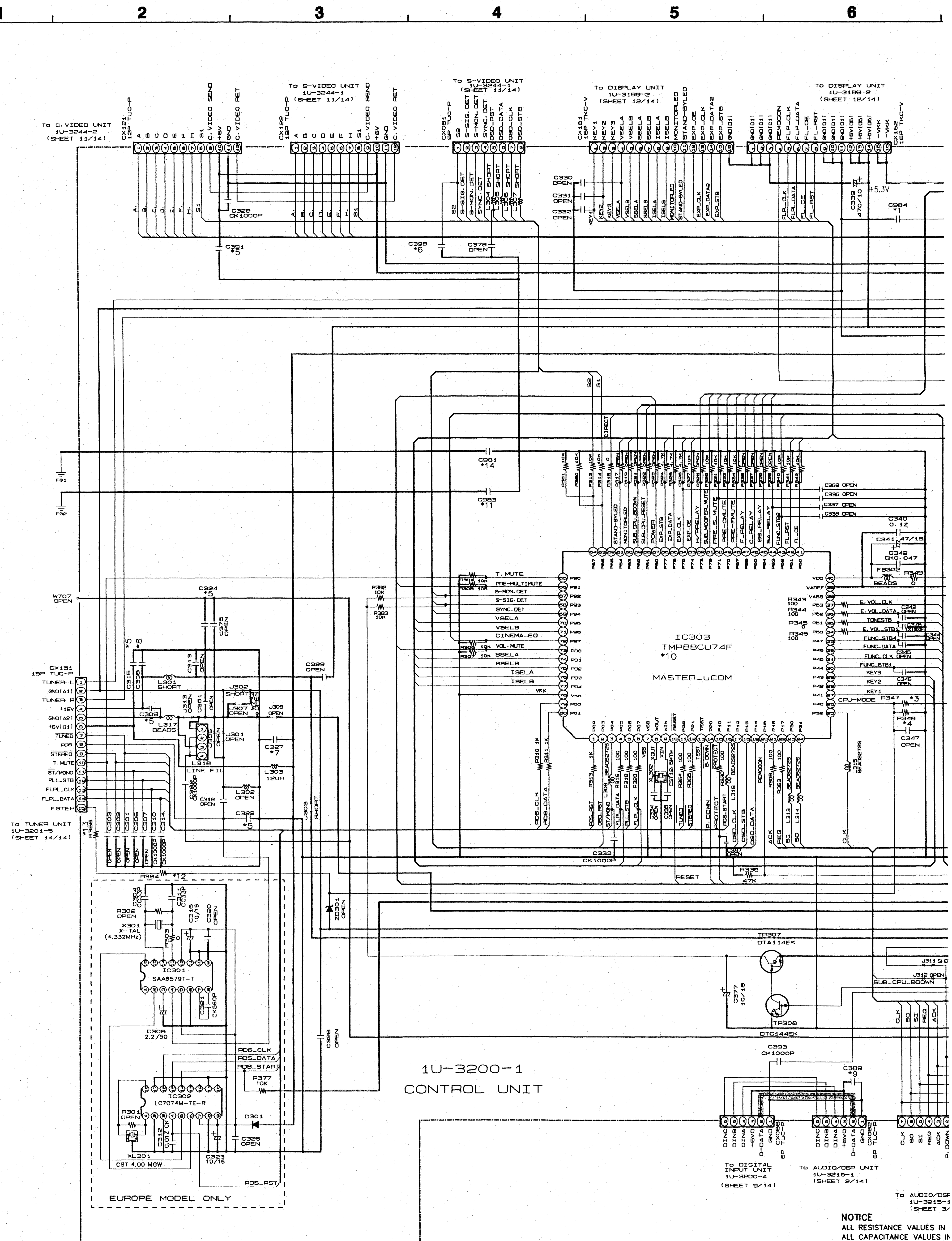
	K1	K2	K3
L1	POWER	AUTO	DIGITAL
L2	SOURCE	ANALOG	PANEL
L3	TUNER PRESET	EXT. IN	SURROUND MODE
L4	REC/MULTI	(OPEN)	SURROUND PARAMETER
L5	MD/TAPE MONITOR	VIDEO SELECT	CH. VOL
L6	PCM	DIMMER	TONE CONTROL

SCHEMATIC DIAGRAMS (12/14)

1U-3199-2 DISPLAY UNIT

1U-3199-3 VOL UNIT

SCHEMATIC DIAGRAMS (13/14)


1
2
3
4
5
6
To C.VIDEO UNIT
1U-3244-2
(SHEET 11/14)
CX121
12P TUC-P
To S-VIDEO UNIT
1U-3244-1
(SHEET 11/14)
CX122
12P TUC-P
To S-VIDEO UNIT
1U-3244-1
(SHEET 11/14)
CX081
8P TUC-P
To DISPLAY UNIT
1U-3199-2
(SHEET 12/14)
CX161
16P TKC-V
To DISPLAY UNIT
1U-3199-2
(SHEET 12/14)
CX162
16P TKC-V
CX151
15P TUC-P
To TUNER UNIT
1U-3201-5
(SHEET 14/14)
IC303
TMP88CU74F
*10
MASTER_uCOM
IC301
SAA6579T-T
IC302
LC7074M-TE-R
X301
X-TAL
(4.332MHz)
XL301
CST 4.00 MGW
TR307
DTA114EK
TR308
DTC144EK
1U-3200-1
CONTROL UNIT
EUROPE MODEL ONLY
To DIGITAL INPUT UNIT
1U-3200-4
(SHEET 8/14)
To AUDIO/DSP UNIT
1U-3215-1
(SHEET 2/14)
To AUDIO/DSP
1U-3215-1
(SHEET 3/

NOTICE

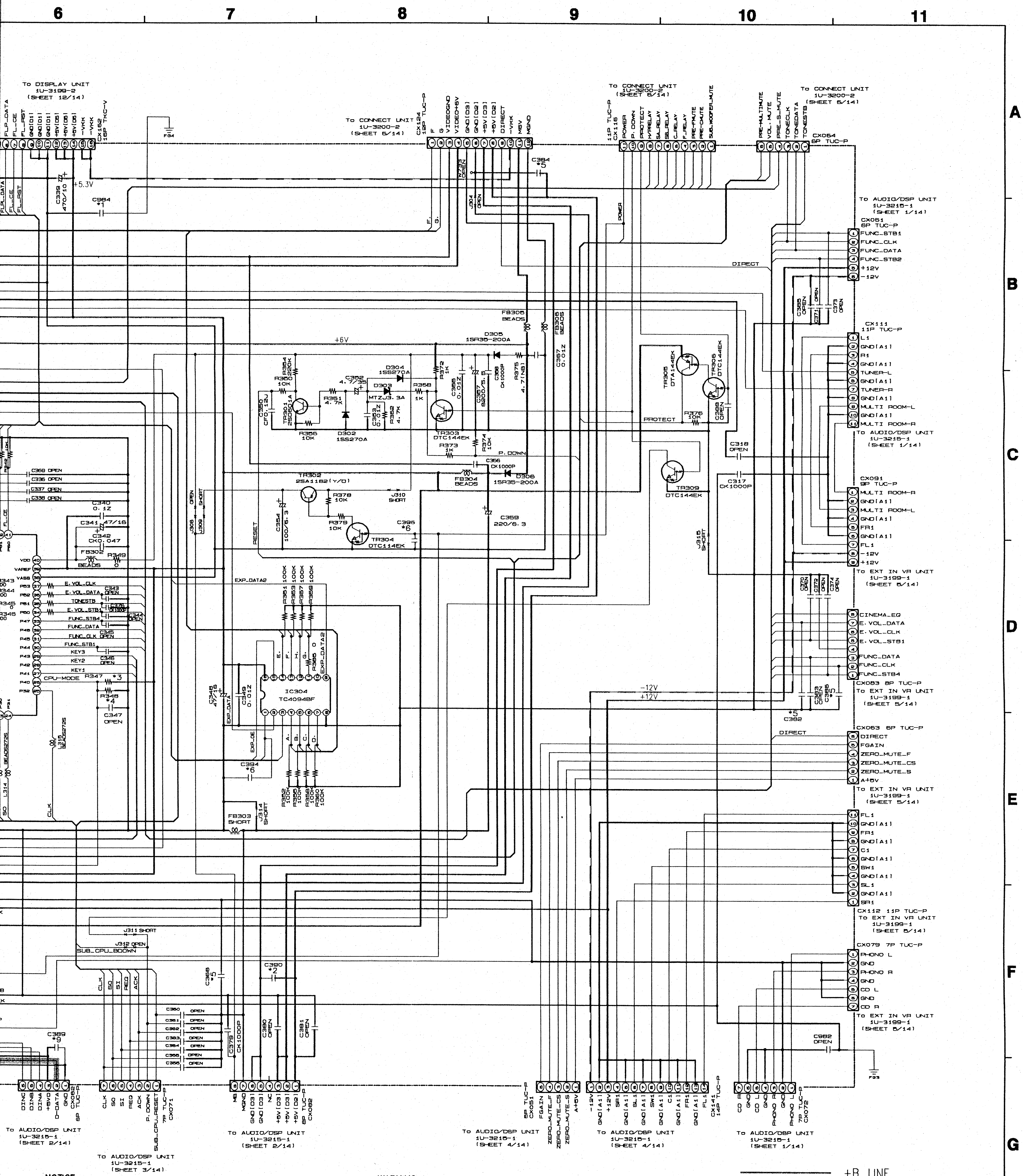
ALL RESISTANCE VALUES IN

ALL CAPACITANCE VALUES IN

EACH VOLTAGE AND CURREN
CONDITION.

CIRCUIT AND PARTS ARE SUI
NOTICE.

	*1 C984	*2 C390	*3 R347	*4 R348	*5 C309,315,324,382,391, C384,386,322,368,376	*6 C394,395,,396	*7 C327	*8 C305	*9 C389	*10 IC303	*11 C983	*12 R384	*13 R366
USA CANADA	OPEN	CF0.1J	OPEN	0	CK1000P	OPEN	CK1000P	CK1000P	CK0.022Z	262 2613 019	CK1000P	OPEN	OPEN
EUROPE	CK1000pF	OPEN	0	OPEN	OPEN	CK1000P	OPEN	CK0.047	OPEN	262 2711 005	CK1000P	OPEN	OPEN
ASIA	OPEN	OPEN	1K	5.1K	OPEN	CK1000P	CK1000P	CK0.047	OPEN	262 2613 019	OPEN	1.3K	0


6
7
8
9
10
11
A
B
C
D
E
F
G
H
To DISPLAY UNIT
1U-3199-2
(SHEET 12/14)
CX152
16P TKC-V
To CONNECT UNIT
1U-3200-2
(SHEET 6/14)
CX124
12P TUC-P
CX118
11P TUC-P
CX054
6P TUC-P
To AUDIO/DSP UNIT
1U-3215-1
(SHEET 1/14)
CX051
6P TUC-P
FUNC_STB1
FUNC_CLK
FUNC_DATA
FUNC_STB2
+12V
-12V
DIRECT
CX111
11P TUC-P
L1
R1
TUNER-L
TUNER-R
MULTI ROOM-L
MULTI ROOM-R
PROTECT
CX091
9P TUC-P
FR1
FL1
To EXT IN VR UNIT
1U-3199-1
(SHEET 5/14)
CINEMA_EQ
E. VOL_DATA
E. VOL_CLK
E. VOL_STB1
FUNC_STB4
CX083 8P TUC-P
CX063 6P TUC-P
FGAIN
ZERO_MUTE_F
ZERO_MUTE_CS
ZERO_MUTE_S
A+5V
C1
SW1
SL1
SR1
CX112 11P TUC-P
CX079 7P TUC-P
PHONO L
PHONO R
CD L
CD R
GND
+6V
P. DOWN
RESET
EXP_DATA2
IC304
TC4094BF
TR301
TR302
2SA1182(Y/O)
TR303
DTC144EK
TR304
DTC114EK
TR305
DTC144EK
TR306
DTA144EK
TR309
DTC144EK
-12V
+12V
SUB_CPU_BDOWN
CX062
8P TUC-P
CX071
7P TUC-P
CX082
8P TUC-P
CX051
6P TUC-P
CX141
14P TUC-P
CX072
7P TUC-P
To AUDIO/DSP UNIT
1U-3215-1
(SHEET 2/14)
To AUDIO/DSP UNIT
1U-3215-1
(SHEET 3/14)
To AUDIO/DSP UNIT
1U-3215-1
(SHEET 4/14)

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD

EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.

——— +B LINE

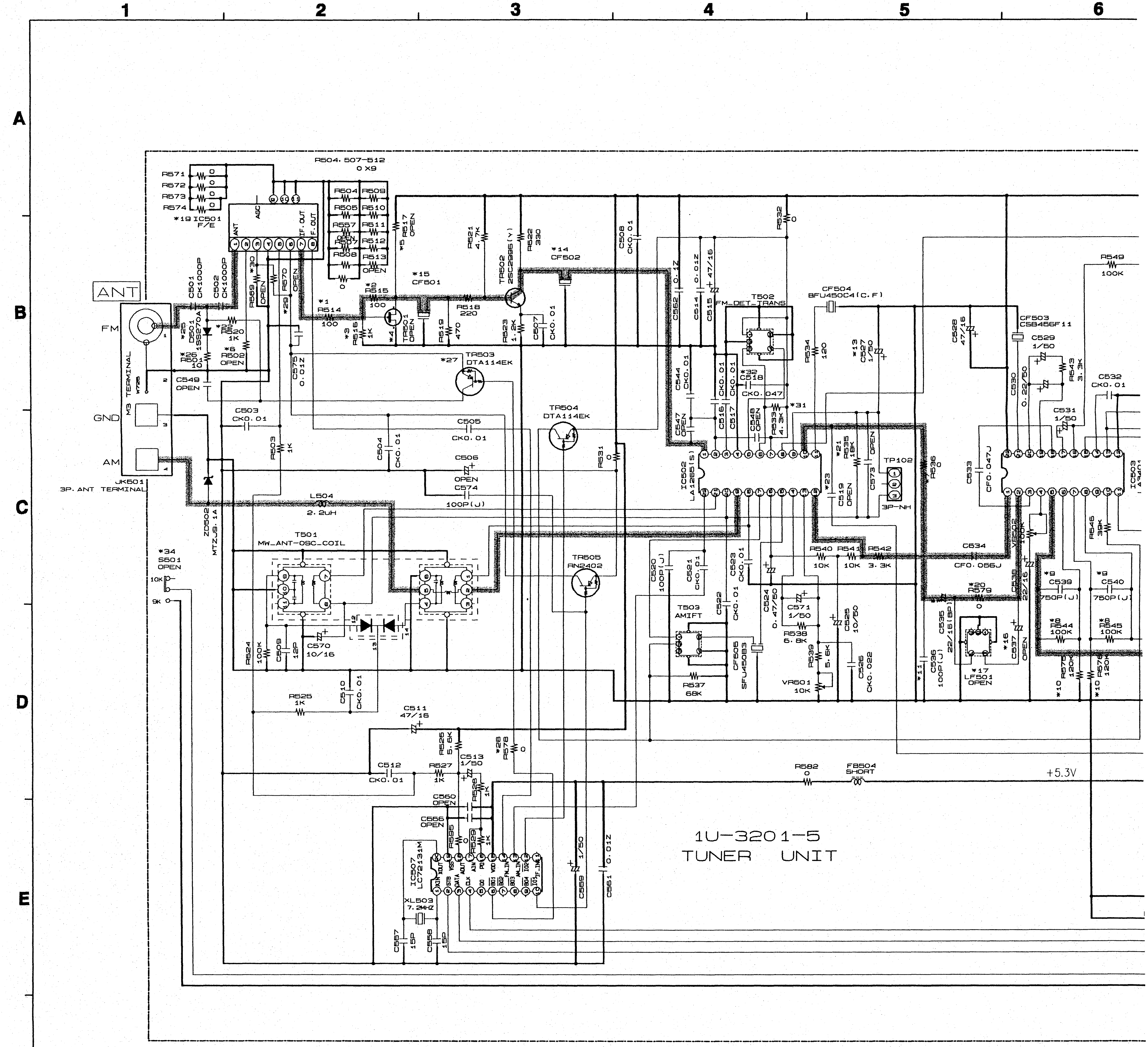
— — — -B LINE

▨▨▨ SIGNAL LINE

*11 C983	*12 R384	*13 R366	*14 C981
CK1000P	OPEN	OPEN	OPEN
CK1000P	OPEN	OPEN	OPEN
OPEN	1.3K	0	CK1000P

SCHEMATIC DIAGRAMS (13/14)
1U-3200-1 CONTROL UNIT

SCHEMATIC DIAGRAMS (14/14)


1U-3201-5
TUNER UNIT
ANT
FM
GND
AM
JK501
3P. ANT TERMINAL
M3 TERMINAL
*19 IC501 F/E
R504. 507-512 0 X9
TR502 2SC2985(Y)
TR503 DTA114EK
TR504 DTA114EK
TR505 RN2402
T501 MW_ANT-OSC_COIL
L504 2.2uH
ZD502 MTZJ9.1A
*34 S601 OPEN
10K
9K
IC502 LA1265(S)
T502 FM_DET_TRANS
CF504 BFU450C4(C.F)
CF503 CSB456F11
TP102
3P-NH
T503 AMIFT
CF505 SFU450B3
VR601 10K
IC507 LC72131M
XL503 7.2MHZ
R582 0
FB504 SHORT
+5.3V
IC503
*17 LF501 OPEN
A
B
C
D
E
1
2
3
4
5
6

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD

EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

Parts marked with this symbol ⚠ ▨ have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

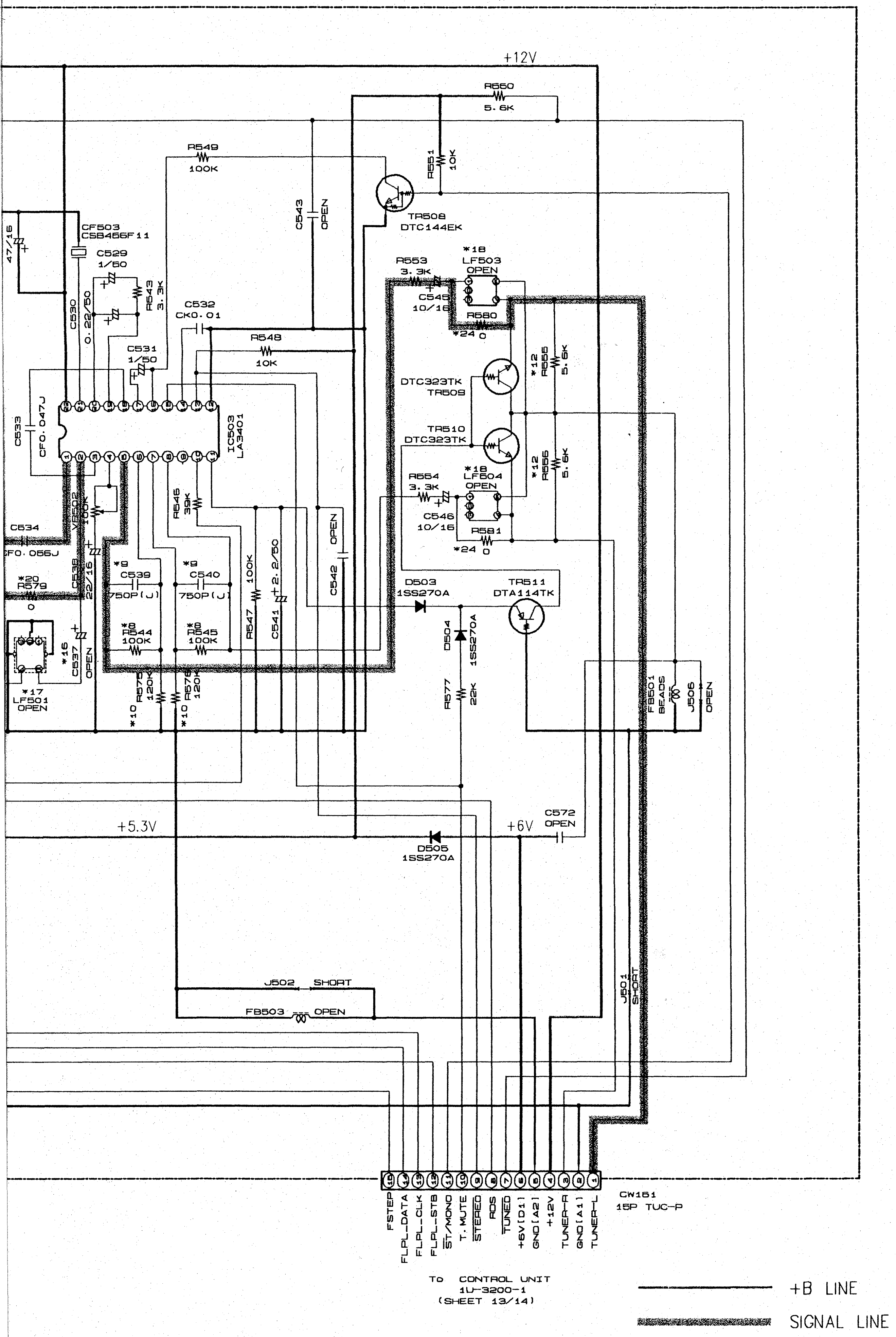
CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.

6 7 8 9 10 11


+12V
R550
5.6K
R549
100K
R551
10K
TR508
DTC144EK
C543
OPEN
47/16
CF503
CSB456F11
C529
1/50
R543
3.3K
C530
0.22/50
C532
CK0.01
R548
10K
C531
1/50
C533
CF0.047J
IC503
LA3401
R553
3.3K
*18
LF503
OPEN
C545
10/16
R580
*24 0
DTC323TK
TR509
*12
R555
5.6K
TR510
DTC323TK
*12
R556
5.6K
R554
3.3K
*18
LF504
OPEN
C546
10/16
R581
*24 0
C534
CF0.056J
VR502
100K
*20
R579
0
C538
22/16
R546
39K
*9
C539
750P(J)
*9
C540
750P(J)
R547
100K
C541
2.2/50
C542
OPEN
*8
R544
100K
*8
R545
100K
*16
C537
OPEN
*17
LF501
OPEN
R575
120K
R576
120K
*10
*10
D503
1SS270A
TR511
DTA114TK
D504
1SS270A
R577
22K
FB501
BEADS
J506
OPEN
+5.3V
D505
1SS270A
+6V
C572
OPEN
J502 SHORT
FB503 OPEN
J501
SHORT
FSTEP
FLPL_DATA
FLPL_CLK
FLPL_STB
ST/MONO
T.MUTE
STEREO
RDS
TUNED
+6V(D1)
GND(A2)
+12V
TUNER-R
GND(A1)
TUNER-L
CW151
15P TUC-P
To CONTROL UNIT
1U-3200-1
(SHEET 13/14)
+B LINE
SIGNAL LINE

*	NO	* USA	EUROPE	ASIA
1	R514	100	100	100
2	R515	100	---	100
3	R516	1K	330	1K
4	TR501	---	2SK211(GR)	---
5	R517	---	330	---
6	R502	---	0	---
7	R536	0	2.7K	0
8	R544, 545	100K	150K	100K
9	C539, 540	CK 750P	CK 300P	CK 510P
10	R575, 576	120K	200K	120K
11	C536	CC 100P	---	CC 100P
12	R555, 556	5.6K	3.3K	5.6K
13	C527	1/50	0.33/50	0.33/50
14	CF502	SFE 10.7MS2G	SFT 10.7MS2	SFE 10.7MS2G
15	CF501	SFE 10.7MA8	SFT 10.7MS2	SFE 10.7MAB
16	C537	---	22/16	---
17	LF501	---	ANTI BIRDIE FILTER	---
18	LF503, 504	---	LPF 2320085004	---
19	IC501	F/E 2160102008	F/E 2169013004	F/E 2160102 008
20	R579	0	---	0
21	R535	18K	30K	30K
22	R520	1K	1K	1K
23	C519	---	CC 100P	---
24	R580, 581	0	---	0
25	D501	1SS270A	1SS270A	1SS270A
26	R501	10	10	10
27	TR503	DTA114EK	DTA114EK	DTA114EK
28	R578	0	0	0
29	R570	---	10K	---
30	R569	---	5.6K	---
31	R533	4.3K	4.7K	4.7K
32				
33				
34	S501	---	---	SLIDE SW 212 0408 001

SCHEMATIC DIAGRAMS (14/14)

1U-3201-5 TUNER UNIT